federal register

WEDNESDAY, SEPTEMBER 5, 1973
WASHINGTON, D.C.

Volume 38 ■ Number 171

PART IV

DEPARTMENT OF COMMERCE

National Technical Information Service

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GOVERNMENT OWNED INVENTIONS

AEC Patents; Availability for Licensing

DEPARTMENT OF COMMERCE

National Technical Information Service

GOVERNMENT-OWNED INVENTIONS

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DOUGLAS J. CAMPION,
Patent Program Coordinator,
National Technical Information Service.

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2,794,923	Electromagnetic Apparatus	S. W. Barnes
2,795,479	Method for Converting Uranium Ammonium Phosphate to Uranyl Fluoride	S. Bernstein, H. A. Bernhardt
2,795,480	Recovery of Uranium from Aqueous Phosphate Containing Solutions	E. F. Stephan, G. A. Lutz
2,795,481	Solvent Extraction Process for the Separation of Tantalum and Niobium Values	H. G. Hicks, W. E. Nervik, P. C. Stevenson
2,795,482	Absorption of Iodine Vapor	R. McNabney
2,795,499	Production of Metals	D. Peterson
2,795,654	High Impedence Electronic Circuit	J. R. Macdonald
2,795,703	Apparatus for Counting Fast Neutrons in the Presence of Gamma Rays	I. B. Berlman, L. D. Marinelli
2,795,704	Neutron Ion Chamber	H. B. Bryant, G. F. Erickson, S. G. Kaufman
2,796,320	Solvent Extraction Process for Purification of Thorium	F. H. Spedding, A. Kant
2,796,323	Conversion of Dimethyl Ether Boron Trifluoride Complex to Potassium Fluoborate	A. R. Eberle
2,796,330	Method of Separating and Concentrating Isotopes of Boron and Oxygen	R. H. Crist, I. Kirshenbaum
2,796,392	Process and Electrolyte for the Electrodeposition of Zirconium	M. H. Lietzke
2,796,393	Process of Recovering Uranium from Calutron Wash Solutions	R. Q. Boyer
2,796,396	Method of Intermittently Operating a Neutronic Reactor	L. Szilard
2,796,398	Means for Sustaining a Nuclear Fission Chain Reaction	E. C. Creutz, L. A. Ohlinger, E. P. Wigner, G. J. Young

2,796,411	Radiation Shield	R. E. Zirkle, H. J. Curtis
2,796,424	Separation Process by Absorption	W. W. Schulz, R. A. Watts, Jr. R. L. Moore
2,796,529	Radiation Shield	P. Morrison
2,797,050	Remote Adjustment of Automatic Control System	K. G. Macleish
2,797,081	Carbon Burner	F. J. Sullivan, E. J. Bair, J. H. Allen
2,797,142	Method of Reducing Heavy Metal Tetrahalides	J. J. Katz
2,797,143	Uranium-Vanadium Recovery and Separation by Phosphate Precipitation	W. F. Arendale, C. F. Coleman
2,797,160	Production of Zirconium	F. H. Spedding, H. A. Wilhelm, W. H. Keller
2,797,163	Filter Media and Method of Making	W. J. Smith, R. W. James
2,797,319	Trigger Circuit	N. F. Moody
2,797,328	Transistor Oscillator	E. G. Miller, Jr.
2,797,983	Method of Determining Small Quantities of Uranium Compounds in a Gas Stream	J. Greenspan, A. S. Carlson
2,798,084	Recovery of Uranium from Aqueous Solutions	R. H. Poirier
2,798,164	Portable X-Ray or Gamma Source	S. Untermyer
2,798,165	Stable Photomultiplier Amplifier	L. K. Neher
2,798,178	Accelerator Target Positioner	H. G. Heard, W. W. Salsig, Jr.
2,798,181	Pumping Ion Source	J. S. Foster, Jr.
2,798,359	Steam Power Plant with Means for Heavy Water Concentration	J. S. Foster, G. E. Haddeland
2,798,789	Method of Separating Rare Earths	F. H. Spedding, E. J. Wheelwright, J. E. Powell
2,798,847	Method of Operating a Neutronic Reactor	E. Fermi, L. Szilard
2,798,848	Neutronic Reactor Fuel Element	K. H. Kingdon
2,799,553	Phosphate Method for Separation of Radioactive Elements	S. G. Thompson, G. T. Seaborg
2,799,554	Method of Separating Plutonium	F. Morgan
2,799,555	Method of Separating Plutonium	F. Morgan
2,799,642	Neutronic Reactor Fuel Element	H. Hurwitz, Jr., H. Brooks, C. Mannal, J. H. Payne, E. A. Luebke
2,799,836	Pulse Transformer	R. E. Heller, H. M. Owren, D. A. Mack
2,800,387	Uranium Recovery from Ores with Hydrochloric Acid and Acetone	R. B. Kimball, R. A. Ewing
2,800,588	Marking Fluoroscope Head	T. B. Carrey, M. H. Taylor
2,800,589	Crystal Dosimeter	P. W. Levy
2,800,797	Proportional Waste Line Sampler	J. F. Honstead
2,801,302	Compound Action Gain Control	T. H. Guinn
2,801,960	Gold Plating Process	R. Seegmiller
2,802,070	Stabilized Feedback Amplifier	H. L. Fishbine, C. Sewell, Jr.
2,802,108	Method and Apparatus for Collecting Isotopes	W. E. Leyshon
2,803,405	Automatic Counting Apparatus	W. D. Howell
2,803,601	Reactor Unloading Means	C. M. Cooper
2,803,748	One Shake Gate Former	R. Kalibjian, V. Perez-Mendez
2,803,761	Electromagnetic Apparatus for Moving a Rod	J. N. Young
2,803,885	Gauging Apparatus	C. A. Ruggles
2,804,165	Arrangement for Replacing Filters	R. A. Blomgren, H. J. G. Bohlin
2,804,369	Production of Uranium Hexafluoride	R. D. Fowler
2,804,550	Automatic Light Control	M. Artzt
2,804,573	Gas Discharge Devices	W. J. Arrol, S. Jefferson
2,805,473	Uranium-Oxide-Containing Fuel Element Composition and Method of Making Same	J. H. Handwerk, R. A. Noland, D. E. Walker
2,805,916	Conversion of Plutonium Trifluoride to Plutonium Tetrafluoride	S. Fried, N. R. Davidson

2,805,985	Electrodeposition of Plutonium	F. J. Wolter
2,806,161	Coasting Arc Ion Source	J. S. Foster, Jr.
2,806,610	Anti-Swing Crane	R. C. Goertz
2,806,764	Uranium Recovery and Purification Process and Production of High Purity Uranium Tetrafluoride	R. H. Bailes, R. S. Long, R. R. Grinstead
2,806,819	Light Water Moderated Neutronic Reactor	R. F. Christy, A. M. Weinberg
2,806,820	Neutronic Reactor	E. P. Wigner
2,806,910	Quartz Fibre Electroscope	R. P. Henderson
2,807,082	Welding Process	J. Zambrow, H. H. Hausner
2,807,518	Process for Recovery of Uranium and Vanadium from Carbonate Solutions by Reduction-Precipitation	D. A. Ellis, R. O. Lindblom
2,807,519	Process for the Production of an Activated Form of UO_2	M. J. Polissar
2,807,580	Thermal Nuclear Reactor	F. W. Fenning, R. F. Jackson
2,807,581	Neutronic Reactor	E. Fermi (Deceased), L. Szilard
2,807,722	Pulse Generator	C. W. Roeschke
2,807,723	High Power Pulsed Oscillator	S. Singer, L. K. Neher
2,807,727	Neutronic Reactor Shield	E. Fermi (Deceased), W. H. Zinn
2,807,785	Line-Above-Ground Attenuator	R. B. Wilds, J. R. Ames
2,807,857	Production of Thoria Ware	P. Murray, I. E. Denton, D. Wilkinson
2,808,312	Process for Treating Volatile Metal Fluorides	A. J. Rudge, A. J. Lowe
2,808,986	Electronic Digital Computer	J. J. Stone, Jr., E. R. Mann, E. S. Bettis
2,809,091	Solvent Extraction Process	A. A. Jonke
2,809,157	Neutronic Reactor	H. E. Metcalf
2,809,887	Method of Alloying Reactive Metals with Aluminum or Beryllium	O. J. C. Runnalls
2,809,931	Neutronic Reactor System	F. Daniels
2,810,626	Process for Producing Uranium Hexafluoride	R. D. Fowler
2,810,689	Fluid Moderated Reactor	E. P. Wigner, L. A. Ohlinger, G. J. Young, A. M. Weinberg
2,810,828	Pulse Amplitude Analyzer	G. W. Gray, A. S. Jensen
2,811,411	Method of Processing Monazite Sand	G. D. Calkins
2,811,412	Method of Recovering Uranium Compounds	R. H. Poirier
2,811,413	Fluorination Process	T. S. McMillan
2,811,414	Process for Producing Uranium Halides	E. V. Murphree
2,811,415	Extraction Method of Separating Uranium, Plutonium, and Fission Products from Compositions Containing Same	G. T. Seaborg
2,811,416	Process of Removing Plutonium Values from Solution with Group IVB Metal Phospho-Silicate Compositions	E. R. Russell, A. W. Adamson, J. Schubert, G. E. Boyd
2,811,423	Redistributor for Liquid-Liquid Extraction Columns	J. G. Bradley
2,811,487	Neutron Reactor Having a Xe^{135} Shield	H. E. Stanton
2,811,923	Direct Current Electromagnetic Pump	A. H. Barnes
2,812,232	Prevention of Scale Formation in Uranium Solvent Extractor	J. W. Delaplaine
2,812,233	Metal Extraction Process	G. W. Lewis, Jr., D. E. Rhodes
2,812,303	Atomic Power Plant	F. Daniels
2,812,304	Means for Cooling Reactors	J. A. Wheeler
2,813,001	Uranium Purification Process	J. R. Ruhoff, C. E. Winters
2,813,002	Uranium Purification Process	C. E. Winters
2,813,003	Alkaline Carbonate Leaching Process for Uranium Extraction	A. Thumaes, E. A. Brown, A. T. Rabbitts
2,813,004	Process for Separating Plutonium from Impurities	A. C. Wahl
2,813,018	Production of Uranium	A. E. Ruehle, J. W. Stevenson
2,813,022	Method of Conducting a Person Between a Safe Region and a Dangerous Region	H. A. Moulthrop

2,813,064	Isotopic Fractionation Process of Uranium	A. Clark
2,813,070	Method of Sustaining a Neutronic Chain Reacting System	E. Fermi (Deceased), M. C. Leverett
2,813,073	Neutron Reactor Fuel Element Utilizing Zirconium-Base Alloys	H. A. Saller (Deceased), J. R. Keeler, E. R. Szumachowski
2,813,598	Method for Removal of Light Isotope Product from Liquid Thermal Diffusion Units	J. D. Hoffman, J. K. Ballou
2,813,978	Electron Emission Regulating Means	I. R. Brenholdt
2,813,979	Apparatus for Producing Ions of Vaporizable Materials	C. Starr
2,814,477	Retort Assembly	C. C. Loomis, W. J. Ash
2,814,728	Ion Beam Collimator	A. S. Langsdorf, Jr.
2,814,772	Electrical Circuits Using Cold-Cathode Triode Valves	F. S. Goulding
2,814,849	Process of Producing Refractory Uranium Oxide Articles	N. E. Hamilton
2,814,857	Ceramic Fuel Element Material for a Neutronic Reactor and Method of Fabricating Same	W. H. Duckworth
2,815,261	Uranium Precipitation Process	A. Thunaes, E. A. Brown, H. W. Smith, R. Simard
2,815,262	Separation Process for Thorium Salts	G. L. Bridger, M. E. Whatley, K. G. Shaw
2,815,264	Processing of Monazite Sand	G. D. Calkins, E. G. Bohlmann
2,815,265	Metal Recovery Process	L. B. Werner, O. F. Hill
2,815,266	Method of Preparing PuF_4	R. E. Heath, A. E. Florin
2,815,277	Method for Removing Sodium Oxide from Liquid Sodium	W. H. Bruggeman, B. G. Voorhees
2,815,319	Fast Neutronic Reactor	A. H. Snell
2,815,321	Isotope Conversion Device	E. P. Wigner, L. A. Ohlinger, G. J. Young
2,815,968	Seal for Rotating Shaft	R. T. Coffman
2,816,005	Extraction of Uranyl Nitrate from Aqueous Solutions	N. H. Furman, R. J. Mundy
2,816,042	Refractory Article and Process of Manfacturing Same	N. E. Hamilton
2,816,068	Reactor Control	W. J. Ruano
2,816,122	Method of Recovering Thorium	R. W. Fisher
2,816,476	High-Speed Camera	B. T. Rogers, Jr., W. C. Davis
2,816,704	Seal for High Speed Centrifuge	C. W. Skarstrom
2,816,813	Fractional Distillation Separation of Plutonium Values from Light Element Values	B. B. Cunningham
2,816,860	Means for Controlling a Nuclear Reactor	V. C. Wilson, L. Slotin, W. P. Overbeck, D. K. Froman
2,817,019	Shock-Excited Oscillator	R. Creveling
2,817,036	Spark Gap Switch	R. B. Neal
2,817,060	Non-Destructive Flaw Detection Apparatus	M. J. Stateman, H. R. Holloway
2,817,350	Device for Control of Oxygen Partial Pressure	H. Bradner, H. S. Gordon
2,817,605	Method for Sealing the Pores in a Carbon Body	M. C. Sanz, C. R. Malmstrom, J. M. Nuding, H. P. Yockey
2,817,763	Ion Source for a Calutron	J. G. Backus
2,818,208	Gas Metering Pump	C. H. George
2,818,324	Liquid-Liquid Extraction Columns	J. D. Thornton
2,818,504	Logarithmic Amplifier	J. A. DeShong, Jr.
2,818,507	Velocity Selector Method for the Separation of Isotopes	R. J. Britten
2,818,605	Method of Making a Refractory Material	H. I. Miller
2,818,726	Automatic Calibrating System for Pressure Transducers	E. L. Amonette, G. W. Rodgers
2,819,053	Acceleration Integrator	K. E. Pope
2,819,143	Plutonium Separation Method	J. L. Dreher, S. G. Thompson

2,819,144	Separation of Plutonium from Uranium and Fission Products by Adsorption	G. T. Seaborg, J. E. Willard
2,819,280	Plutonium Compounds and Process for Their Preparation	F. J. Wolter, H. C. Diehl, Jr.
2,819,296	Electronic Trigger Circuit	J. A. G. Russell
2,819,401	Apparatus for Controlling the Position of an Ion Beam in a Calutron	E. O. Lawrence
2,819,944	Purification Process	H. L. Wibbles, E. I. Miller
2,820,182	Photosensitive Relay Control Circuit	C. F. Martin
2,820,192	Tube Tester	H. T. Gittings, Jr., J. P. Kalbach
2,820,367	Device for Conveying and Rotating Objects	C. E. Frantz, J. Roslund
2,820,692	Process of Dissolving Zirconium Alloys	R. S. Shor, S. Vogler
2,820,751	Process for Producing Jacketed Bodies	H. A. Saller (Deceased)
2,820,753	Nuclear Reactor	H. I. Miller, R. C. Smith
2,820,759	Method of Separating Froths from Liquid	G. P. Monet
2,820,895	Pulse Height Analyzer	C. W. Johnstone
2,820,896	Multichannel Pulse-Height Analyzer	J. T. Russell, H. W. Lefevre
2,821,505	Process of Coating Metals with Bismuth or Bismuth-Base Alloys	J. G. Beach
2,821,632	Apparatus for Producing Ions of Vaporizable Materials	B. T. Wright
2,821,636	Go-Devils	S. Jefferson
2,821,662	Ion Source	W. A. Bell, Jr., L. O. Love, W. K. Prater
2,822,239	Method of Separating Plutonium	H. S. Brown, O. F. Hill
2,822,260	Decontamination of Uranium	H. M. Feder, N. R. Chellow
2,822,472	Negative Gate Generator	C. S. Jones, T. E. Eaton
2,822,473	Pulse Duration Lengthener	W. R. Aiken
2,822,479	Radiation Counter	W. W. Goldsworthy
2,822,578	Injection-Moulding Apparatus	G. M. Lobell
2,826,624	Vapor Shield for Induction Furnace	S. L. Reese, S. O. Samoriga
2,826,708	Plasma Generator	J. S. Foster, Jr.
2,827,429	Cooled Neutronic Reactor	C. R. Binner, C. B. Wilkie
2,827,569	Stabilized Oscillator	P. L. Jessen, H. J. Price
2,828,425	Pulse Amplitude Analyzer	M. H. Greenblatt
2,828,875	Remote Handling Arrangements	D. W. Ginns
2,829,293	Lead Severing Contrivance	W. Widmaier
2,829,316	Control and Fault Detector Circuit	C. N. Winningstad
2,829,408	Centrifugal Casting Machine	A. B. Shuck
2,830,066	Separation Process for Transuranic Element and Compounds Thereof	L. B. Magnusson
2,830,871	Uranium Recovery Process	D. Kaufman, C. S. Abrams
2,830,873	Fluoride Volatility Process for the Recovery of Uranium	J. J. Katz, H. H. Hyman, I. Sheft
2,830,874	Ion Exchange Process for the Recovery and Purification of Materials	R. S. Long, R. H. Bailes
2,830,894	Production of Uranium	F. H. Spedding, H. A. Wilhelm, W. H. Keller
2,830,896	Uranium Alloys	A. U. Seybolt
2,830,921	Production of Uranium Tubing	E. C. Creutz
2,830,939	Process of Separating Plutonium Values by Electrodeposition	A. C. Wahl
2,830,944	Neutronic Reactor	E. P. Wigner, A. M. Weinberg, G. J. Young
2,831,122	Radiation Sources	M. H. Brucer
2,831,162	Time-Interval Measuring Device	J. E. Gross
2,831,750	Separating Protactinium with Manganese Dioxide	G. T. Seaborg, J. W. Gofman, R. W. Stoughton
2,831,806	Neutronic Reactor	E. P. Wigner
2,831,807	Neutronic Reactor	R. J. McGarry
2,831,990	Electromagnetic Apparatus for Moving a Rod	J. N. Young

2,823,116	Method of Preparing Sintered Zirconium Metal from its Hydrides	R. P. Angier
2,823,179	Detection of Coating Failures in a Neutronic Reactor	A. H. Snell, S. K. Allison
2,823,350	Method of Locating Grounds	K. Macleish
2,823,976	Recovery of Thorium and Uranium Values from Aqueous Solutions	G. D. Calkins
2,823,977	Method of Dissolving Uranium Metal	L. A. Slotin
2,823,978	Precipitation Method of Separating Plutonium from Contaminating Elements	J. B. Sutton
2,824,056	Reactor Unloading	H. C. Leverett
2,824,234	Method and Means for Radiation Dosimetry	J. W. Schulte, J. F. Suttle
2,824,252	Ionization Chamber	W. C. Redman, F. R. Shonka
2,824,365	Soldering of Aluminum Base Metals	G. F. Erickson
2,824,732	Apparatus for Melting and Pouring Metal	F. A. Harris
2,824,783	Separation of Scandium From Aqueous Solutions	D. F. Peppard, E. S. Nachtman
2,824,784	Method for the Preparation of Stable Actinide Metal Oxide-Containing Slurries and of the Oxides Therefor	R. S. Hansen, R. E. Minturn
2,824,841	Scintillator Composition for Counters and Method of Making	W. L. Buck, R. K. Swank
2,824,967	Calutron	M. D. Karmen
2,824,973	Radiation Detector System	J. C. Gundlach, G. G. Kelley
2,825,105	Metal Production and Casting	T. T. Magel
2,825,599	Grab Mechanisms	K. H. Dent
2,825,688	Power Generating Neutronic Reactor System	H. C. Vernon
2,825,689	Neutronic Reactor and Fuel Element Therefor	L. Szilard, G. J. Young
2,825,818	Gas Phototube Circuit	J. H. Richardson
2,826,495	Alloy for Use in Nuclear Fission	F. H. Spedding, H. A. Wilhelm
2,831,996	Ion Source	E. F. Martina
2,832,002	Time Calibrated Oscilloscope Sweep	H. M. Ovren, V. L. Smith, B. M. Johnson
2,832,113	Ingot Mold	A. J. Mangold, Jr., J. W. Mahaffey, S. L. Reese
2,832,732	Fuel Assembly for a Neutronic Reactor	E. P. Wigner
2,832,733	Heavy Water Moderated Reactor	L. Szilard
2,832,793	Process for Separation of Heavy Metals	R. B. Duffield
2,833,616	Separation of Uranium from Zirconium and Niobium by Solvent Extraction	E. E. Voiland
2,833,617	Fluorine Process for Separation of Materials	G. T. Seaborg, H. S. Brown
2,833,618	Separating Uranium Containing Solids Suspended in a Liquid	E. C. Creutz, E. P. Wigner
2,833,799	Recovery of Tetravalent Cations from Aqueous Solutions	R. L. Moore
2,833,800	Process for Purifying Plutonium	D. F. Mastick, A. C. Wahl
2,833,927	Method of Separating Isotopes of Uranium in a Calutron	F. A. Jenkins
2,833,965	Electrical Protective Device	W. R. Baker
2,834,672	Method of Producing Uranium	L. S. Foster, T. T. Magel
2,834,722	Electrochemical Decontamination and Recovery of Uranium Values	J. A. McLaren, J. H. Goode
2,835,555	Reduction of Acidity of Nitric Acid Solutions by Use of Formaldehyde	T. V. Healy
2,835,573	Hot Pressing with a Temperature Gradient	H. H. Hausner
2,835,608	Process of Preparing Uranium-Impregnated Graphite Body	M. A. Kanter
2,835,630	Treatment of Metals Prior to Electro-Plating	R. A. U. Huddle, O. Flint
2,835,687	Isotope Fractionation Process	G. H. Clewett, DeWayne A. Lee, W. B. Schaap
2,835,848	Multi-Electrode Tube Pulse Memory Circuit	J. C. Gundlach, J. B. Reeves

2,835,890	Directional Antenna	B. J. Bittner
2,836,548	Surface Treatment of Metallic Uranium	A. G. Gray, E. W. Schweikher
2,836,554	Air Cooled Neutronic Reactor	E. Fermi (Deceased) L. Szilard
2,836,759	Linear Accelerator	S. A. Colgate
2,837,401	Separation of Plutonium from Aqueous Solutions by Ion-Exchange	J. Schubert
2,837,402	Method of Reducing Plutonium Compounds	I. B. Johns
2,837,474	Corrosion Inhibition	G. H. Cartledge
2,837,475	Neutronic Reactor Having Localized Areas of High Thermal Neutron Densities	H. W. Newson
2,837,476	Steam Stirred Homogeneous Nuclear Reactor	H. M. Busey
2,837,477	Chain Reacting System	E. Fermi (Deceased), M. C. Leverett
2,837,548	Separation Process Using Complexing and Adsorption	F. H. Spedding, J. A. Ayres
2,837,639	Pulse Amplitude Analyzers	G. W. Gray, A. S. Jensen
2,837,640	Pulse Height Analyzer	W. W. Goldsworthy
2,837,818	Method of Solid State Welding	S. Storchheim
2,838,366	Oxidative Method of Separating Plutonium from Neptunium	L. J. Beaufait, Jr.
2,838,367	U-Extraction-Improvements in Elimination of Mo by Use of Ferric Ion	H. M. Clark, D. Duffey
2,838,368	Treatment of Ammonium Nitrate Solutions	T. W. Boyer, J. G. MacHutchin, L. Yaffe
2,838,369	Process for the Concentration of Ores Containing Gold and Uranium	A. M. Gaudin, J. Dasher
2,838,370	Recovery of Uranium and Thorium from Aqueous Solutions	G. D. Calkins
2,838,371	Method of Separating Plutonium from Lanthanum Fluoride Carrier	G. W. Watt, R. H. Goeckermann
2,838,451	Gas Cooled Nuclear Reactors	E. Long, W. Rodwell
2,838,452	Plates with Oxide Inserts	J. M. West, J. F. Schumar
2,838,661	Binary Storage Element	J. C. Chu
2,839,357	Solvent Extraction Process for Uranium Recovery	H. M. Clark, D. Duffey
2,839,358	Process of Recovering Uranium	T. D. Price, N. M. Jeung
2,839,614	Magnetic Recording Head	L. C. Merrill
2,839,619	Pulse Amplifier	C. W. Johnstone
2,839,706	Pulsed Ion Source	C. E. Anderson, K. W. Ehlers
2,840,136	Tube Flanging Apparatus Having Spiral Cam Actuated Flanging Rollers	H. J. Bellarts
2,840,451	Separation of Inorganic Salts from Organic Solutions	L. I. Katzin, J. C. Sullivan
2,840,452	Recovery of Uranium from Pitchblende	A. E. Ruehle
2,840,464	Method of Separating Fission Products from Fused Bismuth-Containing Uranium	R. H. Wiswall
2,840,467	Inhibition of Corrosion	J. E. Atherton, Jr., D. H. Gurinsky
2,840,471	Photographic Film Developer	F. G. Berry
2,840,480	Refractory Coating for Graphite Molds	S. D. Stoddard
2,840,522	Reactor and Novel Method	G. J. Young, L. A. Ohlinger
2,840,788	Loaded Waveguides	L. B. Mullett, B. G. Loach, G. L. Adams
2,841,018	Quick Releasable Drive	J. J. Dickson
2,841,026	Nut Screw Mechanisms	J. A. F. Glass
2,841,464	Precipitation Method of Separation of Neptunium	L. B. Magnusson
2,841,466	Uranium Extraction	C. D. Harrington, J. V. Opie
2,841,468	Recovery of Uranium from Carbonate Leach Liquors	H. F. Wilson
2,841,469	Plutonium Carrier Metathesis with Organic Reagent	S. G. Thompson
2,841,539	Heat Treatment of Electroplated Uranium	P. F. Hoglund
2,841,545	Power Reactor	W. H. Zinn,

2,841,727	Quantizing Tube	G. W. Gray, A. S. Jensen
2,842,224	De-Entrainment Column	A. J. Mooradian
2,842,436	Selective Rejection of Iron and Aluminum in Hydrometallurgical Recovery of Metals	A. J. Beyer, J. Orndorf
2,842,736	Polarograph	J. W. Heyd, P. E. Ohmart
2,843,451	Processes of Recovering Uranium from a Calutron	D. O. Baird, L. R. Zumwalt
2,843,452	Precipitation of Protactinium	R. L. Moore
2,843,453	Separation of Plutonyl Ions	R. E. Connick, W. A. McVey
2,843,478	High Temperature Brazing Alloy for Joining Fe Cr Al Materials and Austenitic and Ferritic Stainless Steels	R. R. Coat
2,843,500	Coated Alloys	C. G. Harmon, L. S. O'Bannon
2,843,543	Neutronic Reactor	R. F. Christy
2,843,815	Transistor High Voltage Power	G. E. Driver
2,844,639	Thermo-Electric Generator	K. C. Jordan
2,844,735	Method of Testing for Leaks	E. C. Creutz, Wm. A. McAdams, M. H. Foss
2,844,740	Multiple Spark Gap Switch	A. E. Schofield
2,845,530	Pulse Sorter	E. J. Wade
2,845,544	Neutron Measuring Method and Apparatus	G. T. Seaborg, J. W. Cofman, G. Friedlander
2,845,560	Neutron Counter	C. D. Curtis, C. L. Carlson M. P. Tubinis
2,845,596	Peak Reading Voltmeter	A. L. Dyer
2,845,716	Aligning Jig	J. S. Culver, W. C. Tunnell
2,845,762	Can Handling Fixtures	L. R. Kelman, F. L. Yaggee
2,846,084	Electronic Master Slave Manipulator	R. C. Goertz, W. M. Thompson, R. A. Olsen
2,846,523	Square Wave Amplifier	M. A. Leavitt, I. C. Lutz
2,846,762	Metal Plating Process	D. E. Walker, R. A. Noland
2,846,872	Leakage Testing Method	W. A. McAdams, M. H. Foss
2,847,268	Pulse Amplitude Distribution Recorder	G. Cowper
2,847,270	Calutron Oscillograph System	Q. A. Kerns
2,847,273	Manganese Dioxide Method for Preparation of Protactinium	L. I. Katzin
2,847,274	Sulfide Method Plutonium Separation	R. B. Duffield
2,847,275	Uranium Recovery Process	J. H. Yeager
2,847,276	Solvent Extraction of Neptunium	J. P. Butler
2,847,277	Precipitation of Uranium Peroxide of Low Fluoride Content from Solutions Containing Fluorides	E. J. King, H. M. Clark
2,847,278	Precipitation of Zirconium, Niobium, and Ruthenium from Aqueous Solutions	A. S. Wilson
2,847,283	Pulsed Mixer-Settler Solvent Extraction Contactors	W. S. Figg
2,847,284	Apparatus for Catalytically Combining Gases	H. M. Busey
2,847,321	Metal Surface Treatment	L. D. Eubank
2,847,331	Hydrogen Isotope Targets	R. W. Ashley
2,847,575	Calutrons	E. D. Kane
2,847,576	Calutron System	E. O. Lawrence
2,847,577	Calutron	F. H. Schmidt
2,847,635	Electrical Regulating Apparatus Including an Ionic Current Regulator	H. W. Brackney
2,847,644	High Sensitivity Electroscope	F. R. Shonka, A. J. Oklesheh
2,848,266	Remote Retrieving Tool	L. W. Fromm, Jr.
2,848,300	Process of Separating Uranium from Aqueous Solution by Solvent Extraction	J. C. Warf
2,848,301	Separation of Plutonium Hydroxide from Bismuth Hydroxide	G. W. Watt
2,848,325	Fuel Elements for Nuclear Reactors and Process of Making	W. E. Roake
2,848,351	Nitric Acid Pickling Process	E. R. Boller, L. D. Eubank, J. W. Robinson

2,848,352	Fuel Elements and Method of Making	R. A. Noland, C. Marzano
2,848,404	Neutronic Reactor	M. Treshow
2,848,619	Ion Source Unit for a Calutron	W. M. Brobeck
2,848,620	Ion Producing Mechanism	J. G. Backus
2,848,621	Calutron Ion Source	F. Oppenheimer
2,848,622	Calutron Ion Source	F. Oppenheimer
2,848,625	Gamma and X-Ray Dosimeter and Dosimetric Method	G. V. Taplin, C. H. Douglas, S. C. Sigoloff
2,848,796	Alloy Coatings and Method of Applying	L. D. Eubank, E. R. Boller
2,848,797	Metal-Coated Articles and Method of Making	L. D. Eubank
2,848,800	Method of Jacketing Uranium Bodies	J. O. Maloney, J. B. Tepe, E. B. Haines
2,848,804	Method and Means for Closing Tubes by Spinning	E. E. Graves, R. H. Coonfare
2,848,817	Means for Determining Centrifuge Alignment	W. Q. Smith
2,848,881	Thermally Shielded Moisture Removal Device	O. E. Miller
2,849,246	Closure Device	S. M. Linzell, D. J. Dorcy
2,849,277	Process of Securing Plutonium in Nitric Acid Solutions in Its Trivalent Oxidation State	J. R. Thomas
2,849,279	Catalytic Promotion of the Adsorption of Vanadium on an Anionic Exchange Resin	R. H. Bailes, D. A. Ellis
2,849,282	Method of Separation	G. E. Boyd
2,849,283	Separation of Uranyl Nitrate by Extraction	R. W. Stoughton, F. L. Steahly
2,849,284	Method of Separating Uranium Suspensions	E. P. Wigner, W. A. McAdams
2,849,285	Method of Purifying Uranium	J. W. Kennedy (Deceased), E. G. Segre
2,849,286	Method of Processing Monazite Sand	M. A. Walt, M. Smutz
2,849,307	Method of Flux Treatment for Treating Uranium	F. Foote
2,849,308	Flux Composition and Method for Treating Uranium-Containing Metal	F. Foote
2,849,313	Preparation of Metal Powder Compacts Prior to Pressing	H. Mansfield
2,849,337	Metal Coating Baths	J. W. Robinson
2,849,340	Filter Treatment	J. B. Sutton, J. V. P. Torrey
2,849,348	Electrodeposition of Nickel on Uranium	A. G. Gray
2,849,387	Corrosion Resistant Jacketed Metal Body	E. W. Brugmann
2,849,388	Corrosion Resistant Jacketed Metal Body	E. W. Brugmann
2,849,389	Corrosion Resistant Jacketed Metal Body	E. W. Brugmann
2,849,390	Welded Jacketed Uranium Body	D. H. Gurinsky
2,849,467	Separation of Radioactive Columbium Tracer	L. E. Glendenin, H. Gest
2,849,616	Isotope Separators	C. G. Bacon
2,850,447	Neutronic Reactor	L. A. Ohlinger, E. P. Wigner, G. J. Young, A. M. Weinberg
2,850,634	Calutron Structure	D. Price
2,850,635	Regulator for Calutron Ion Source	B. F. Miller
2,850,636	Ion Producing Mechanism	J. G. Backus
2,850,638	Ion Producing Mechanism	K. R. MacKenzie
2,850,639	Calutron Receivers	F. H. Schmidt, K. F. Stone
2,851,332	Preparation of Halides of Plutonium	C. S. Garner, I. B. Johns
2,851,333	Process of Separating Plutonium from Uranium	H. S. Brown, O. F. Hill
2,851,338	Method of Testing Coatings	I. B. Johns, A. S. Newton
2,851,409	Neutronic Reactor Fuel Element and Core System	W. T. Moore
2,851,410	Neutronic Reactor Construction	H. C. Vernon, J. J. Goett (Deceased)
2,851,427	Method of Purifying Catalysts	G. G. Joris

2,851,607	Calutron Receivers	E. J. Lofgren
2,851,609	Ion Producing Mechanism (Arc External to Block)	W. M. Brobeck
2,851,766	Plural Metallic Coatings on Uranium and Method of Applying Same	A. G. Gray
2,852,041	Fluid Selecting Apparatus	W. J. Stinson
2,852,301	Slug Handling Devices	J. R. Gentry
2,852,319	Thrust Bearing	P. R. Heller
2,852,336	Peroxide Process for Separation of Radioactive Materials	G. T. Seaborg, I. Perlman
2,852,337	Processes of Chlorination of Uranium Oxides	S. Rosenfeld (Deceased)
2,852,338	Separation of Plutonium from Elements Having an Atomic Number not Less than 92	F. T. Fitch, D. S. Russell
2,852,349	Apparatus for Liquid Phase Extraction	T. E. Hicks, H. R. Lehman, B. Rubin
2,852,364	Melting and Purification of Uranium	F. H. Spedding, C. F. Gray
2,852,419	Process of Decontaminating Material Contaminated with Radioactivity	D. C. Overholc, M. D. Peterson, M. F. Acken
2,852,456	Neutronic Reactor	E. J. Wade
2,852,457	Nuclear Reactors	E. Long, J. W. Ashley
2,852,458	Apparatus for Controlling Neutronic Reactors	J. R. Dietrich, J. M. Harrer
2,852,459	Apparatus for Detecting and Locating Presense of Fluids	R. R. Williamson
2,852,460	Fuel-Breeder Fuel Element for Nuclear Reactor	W. E. Abbott, R. Balent
2,852,461	Neutronic Reactor	E. Fermi (Deceased), W. H. Zinn, H. L. Anderson
2,852,685	Ion Source for Calutrons	J. R. Tolmie
2,852,686	Calutron Receiver	K. R. MacKenzie
2,852,687	Isotope Separating Apparatus	M. K. Kudravetz, H. B. Greene
2,852,688	Calutrons	W. M. Pierson
2,852,689	Ion Producing Mechanism	E. O. Lawrence (Deceased)
2,852,690	Calutrons	E. O. Lawrence (Deceased)
2,852,746	Voltage-Controlled Transistor Oscillator	P. F. Scheele
2,852,823	Casting Apparatus	C. F. Gray, R. H. Thompson
2,853,228	Oscillatory Pump	N. Underwood
2,853,237	Scanner for Exposing and Analyzing Multi-Channel Film	D. J. Zaffarano, J. Weber, Jr., W. A. Rhinehart
2,853,441	Surface Treatment of Uranium	O. Flint
2,853,446	Fuel-Breeder Element for a Nuclear Reactor	W. E. Abbott, R. Balent
2,853,616	Calutron Structure	J. L. Roush
2,853,623	X-Ray Pulse Generator	Q. A. Kerns
2,853,624	Radiation Shielding Device	E. P. Wigner, G. J. Young
2,853,625	Discharge Device for Radioactive Material	L. A. Ohlinger
2,853,657	Magnets	H. B. Hofacker
2,853,695	Electrostatic Memory System	J. C. Chu
2,853,859	Cold Traps	W. I. Thompson
2,854,315	Electrolytic Reduction of Nitric Acid Solutions Containing Radioactive Waste	H. W. Alter, D. L. Barney
2,854,713	Casting Method and Apparatus	C. F. Gray, R. H. Thompson
2,854,737	Copper Coated Uranium Article	A. G. Gray
2,854,738	Nickel Coated Uranium Article	A. G. Gray
2,855,114	Loading Device	L. A. Ohlinger
2,855,269	The Separation of Plutonium from Uranium and Fission Products	G. E. Boyd, A. W. Adamson, J. Schubert, E. R. Russell
2,855,270	Process of Recovering Uranium	J. M. Carter, C. E. Larson
2,855,271	Separation of Uranium Hexafluoride from Organic Fluoro Compounds	W. F. Libby
2,855,281	Apparatus for Condensation and Sublimation	R. J. Schmidt, F. Fuis, Jr.

2,855,354	Neutronic Reactors	H. L. Anderson
2,855,355	Jacketed Uranium Slug	L. A. Ohlinger, C. M. Cooper
2,855,519	Tamperproof Film Badge	L. F. Kocher
2,855,899	Device for Controlling Insertion of Rod	B. J. Beaty
2,856,237	Metal Sprayer for Use in Vacuum or Inert Atmosphere	R. E. Monroe
2,856,261	Iodate Method for Purifying Plutonium	R. W. Stoughton, R. B. Duffield
2,856,262	Adsorption Procedure in Preparing U^{233}	R. W. Stoughton
2,856,263	Process for the Recovery and Purification of Uranium	J. M. Carter, M. D. Kamen
2,856,336	Neutronic Reactor Control	H. E. Metcalf
2,856,337	Method of Operating Nuclear Reactors	S. Untermyer
2,856,339	Neutronic Reactors	E. P. Wigner, G. J. Young
2,856,340	Shaped Fissionable Metal Bodies	E. P. Wigner, G. J. Young
2,856,341	Nuclear Reactor Slug Provided with Thermocouple	W. R. Kanne
2,856,418	Separation Process for Transuranic Element and Compounds Thereof	M. Calvin
2,856,510	Inert Gas Shield for Welding	S. O. Jones, F. V. Daly
2,856,526	Gating Circuits	L. C. Merrill
2,856,532	Pulsed Ion Source	E. F. Martina
2,857,241	Process Using Potassium Lanthanum Sulfate for Forming a Carrier Precipitate for Plutonium Values	A. H. Angerman
2,857,268	Superconducting Vanadium Base Alloy	H. J. Cleary
2,857,285	High Temperature Refractory Coating for Graphite Molds	S. D. Stoddard
2,857,324	Engineering Test Reactor	D. R. deBoisblanc, M. E. Thomas, R. M. Jones, G. H. Hanson, J. W. Webster, C. F. Leyse
2,857,483	Distributed Amplifier Incorporating Feedback	P. R. Bell, Jr.
2,857,745	Separation of Fluid Mixtures	R. Lipscomb, A. Craig B. Labrow, J. F. Dunn
2,858,187	Uranium Recovery	F. T. Fitch, A. J. Cruikshank
2,858,196	Extraction Apparatus	A. E. Ballard, H. R. Brigham
2,858,262	Protectively Covered Article and Method of Manufacture	R. F. Plott
2,858,447	Radiation Dosimeter and Dosimetric Methods	G. V. Taplin
2,858,452	Radiation Wave Detector	L. F. Wouters
2,858,596	Crucible Lining Method	W. H. Bone, W. W. Schmidt
2,859,092	Solvent Extraction Process for the Recovery of Metals from Phosphoric Acid	R. H. Bailes, R. S. Long
2,859,093	Zirconium Phosphate Adsorption Method	E. R. Russell, A. W. Adamson, J. Schubert, G. E. Boyd
2,859,094	Uranium Extraction Process Using Synergistic Reagents	J. M. Schmitt, C. A. Blake, Jr., K. B. Brown, C. F. Coleman
2,859,095	Process of Producing Cm^{244} and Cm^{245}	W. M. Manning, M. H. Studier, H. Diamond, P. R. Fields
2,859,096	Process for Production of Uranium Hexafluoride	R. D. Fowler
2,859,097	Preparation of Plutonium Halides	M. E. Davidson, J. J. Katz
2,859,138	Composition and Method for Coating a Ceramic Body	M. K. Blanchard
2,859,156	Electrolytic Preparation of UF_4	A. L. Allen, R. W. Anderson, E. W. Powell
2,859,163	Cadmium-Rare Earth Borate Glass as Reactor Control Material	G. L. Ploetz, W. E. Ray
2,859,164	Sampling Device for pH Measurement in Process Streams	C. E. Michelson, W. M. Carson, Jr.
2,859,353	Circuits for Current Measurements	R. J. Cox
2,859,431	Visual Alarm System	J. M. Morris
2,860,031	Process for Utilizing Organic Orthophosphate Extractants	R. R. Grinstead

2,860,032	Wet Method of Preparing Plutonium Tribromide	N. R. Davidson, E. K. Hyde
2,860,093	Isotope Conversion Device and Method	E. P. Wigner, L. A. Ohlinger
2,860,241	Ratio Computer	R. F. Post
2,860,242	Differential Pulse Height Discriminator	L. D. Test
2,860,269	Gas Discharge Devices	S. Jefferson
2,860,270	Pulsed Ion Source	F. C. Ford, S. G. Zizzo, B. Cook, J. W. Ruff
2,860,948	Separation of Neptunium from Plutonium by Chlorination and Sublimation	S. M. Fried
2,860,949	Plutonium Separation Method	L. J. Beaufait, Jr., F. R. Stevenson, G. K. Rollefson
2,860,950	Method of Preparing Metal Halides	A. V. Henrickson
2,860,956	Production of Metals and their Compounds	T. V. Arden, F. H. Burstall, G. R. Davies, R. P. Linstead, R. A. Wells
2,861,033	Horizontal Boiling Reactor System	M. Treshow
2,861,034	Neutronic Reactor Shield and Spacer Construction	E. P. Wigner, L. A. Ohlinger
2,861,035	Control Rod	W. H. Zinn, H. V. Ross
2,861,201	Electronic Pulse Scaling Circuits	E. H. Cooke-Yarborough
2,861,242	Magnetometer	M. A. Leavitt
2,861,789	Accelerometer	K. H. Pope
2,861,866	Wet Fluoride Separation Method	G. T. Seaborg, J. W. Gofman
2,862,105	Multi-Channel Pulse Height Analyzer	K. Boyer, C. W. Johnstone
2,862,113	Regenerative Transistor Amplifier	L. J. Kabell
2,862,862	Formation by Irradiation of an Expanded Cellular, Polymeric Body	A. Charlesby, M. Ross
2,862,526	Method of Separating Hydrogen Isotope	O. N. Salmon
2,863,062	Method of Measuring the Integrated Energy Output of a Neutronic Chain Reactor	W. J. Sturm
2,863,716	Sulphur Dioxide Leaching of Uranium Containing Material	A. Thunaes, F. T. Rabbitts, K. D. Hester, H. W. Smith
2,863,718	Plutonium Concentration and Decontamination Method	D. C. Overholt, F. W. Tober
2,863,719	Method of Improving the Carrier precipitation of Plutonium	H. J. Kamack, J. H. Balthis
2,863,729	Combination of Hydrogen and Oxygen	H. P. McDuffie, C. H. Secoy
2,863,735	System for Conversion of UF_4 to UF_6	D. C. Brater, J. W. Pike
2,863,814	Neutronic Reactor Fuel Element	K. A. Kesselring, A. U. Seybolt
2,863,815	Nuclear Reactor	R. V. Moore, J. H. Bowen, K. H. Dent
2,863,816	Neutronic Reactor Fuel Element	J. T. Stacy
2,863,817	Reactor Coolant Tube Seal	W. J. Morris
2,863,818	Jacketed Reactor Fuel Element	K. F. Smith, R. J. Van Thyne
2,863,830	Process for Decontaminating Liquid Fluorocarbons of Oil Suspended Therein	H. Schneider, B. J. Massey
2,863,892	Separation of Plutonium from Lanthanum by Chelation-Extraction	R. A. James, S. G. Thompson
2,864,042	Servomotor Control System	S. M. MacNeille
2,864,664	Separation of Uranium, Plutonium, and Fission Products	R. Spence, M. W. Lister
2,864,665	Reduction of Plutonium to PU^{+3} by Sodium Dithionite in Potassium Carbonate	D. R. Miller, H. R. Hockstra
2,864,666	Production of Uranium Tetrachloride	V. P. Calkins
2,864,667	Anionic Exchange Process for the Recovery of Uranium and Vanadium from Carbonate Solutions	R. H. Bailes, D. A. Ellis, R. S. Long
2,864,668	Uranium Extraction Process	W. H. Baldwin, C. E. Higgins
2,864,731	Forming Protective Films on Metal	D. H. Gurinsky, O. F. Kammerer, J. Sadofsky, J. R. Weeks
2,864,758	Neutronic Reactor Fuel Element	M. H. Shakelford
2,864,759	Nuclear Reactors	E. Long, J. W. Ashley
2,864,841	Process for the Recovery of Plutonium	H. A. Potratz

2,865,291	Pumps for Liquid Current-Conducting Material	D. A. Watt
2,865,703	Process of Purifying Uranium	G. T. Seaborg
2,865,704	Method of Separating Uranium, Plutonium, and Fission Products by Bromination and Distillation	A. H. Jaffey, G. T. Seaborg
2,865,705	Improvement upon the Carrier Precipitation of Plutonium Ions from Nitric Acid Solutions	R. A. James, S. G. Thompson
2,865,737	Method of Purifying Uranium Metal	R. E. Blanco, B. H. Mirrison
2,865,826	Neutronic Reactor	H. B. Stewart
2,865,827	Power Generation from Liquid Metal Nuclear Fuel	O. E. Dwyer
2,865,829	Slug Ejector	H. W. Bellas, R. N. Lyon
2,865,832	Electrolytic Dissolution of Stainless Steel	E. C. Pitzer
2,866,680	Alkyl Pyrophosphate Metal Solvents Extractants and Process	R. S. Long
2,866,741	Control Rod for a Nuclear Reactor and Method of Preparation	H. H. Hausner
2,866,939	Zero Suppression for Recorders	W. G. S. Fort
2,867,500	Method for Removing Contamination from Precipitates	G. W. Stahl
2,867,501	Volatile Chloride Process for the Recovery of Metal Values	W. R. Hanley
2,867,530	Plutonium-Cerium Alloy	A. S. Coffinberry
2,867,640	Oxalate Process for Separating Element 94	J. W. Cofman
2,867,729	Secondary Electron Multipliers	G. A. Morton, H. W. Green
2,867,748	Heavy Ion Linear Accelerator	C. M. Van Atta, L. Smith, E. R. Beringer
2,867,803	Circular Cavity Slot Antenna	P. L. Karley
2,868,619	Process for the Recovery of Plutonium	D. M. Ritter
2,868,620	Method of Making Plutonium Dioxide	C. S. Garner
2,868,636	Process of Preparing Uranium Metal	C. H. Prescott, Jr. F. L. Reynolds
2,868,706	Device for Charging or Discharging	S. Untermyer, E. Hutter
2,868,707	Process of Making a Neutronic Reactor Fuel Element Composition	H. W. Alter, J. K. Davidson, R. S. Hiller, J. L. Mewherter
2,868,708	Neutronic Reactor	H. C. Wernon
2,868,817	Plutonium-Cupferron Complex and Method of Removing Plutonium from Solution	H. A. Potratz
2,868,974	Resonant Cavity Excitation System	W. R. Baker, J. Reidel
2,868,987	Liquid Target	W. W. Salsig, Jr., M. D. Martin
2,868,990	Neutron Source	W. A. Reardon, D. H. Lennox, R. G. Nobles
2,868,991	High Energy Gaseous Plasma Containment Device	V. Josephson, J. E. Hammal
2,868,992	Reactor Viewing Apparatus	G. S. Monk
2,869,784	Multiplier Circuit	R. E. Thomas
2,869,786	Adder Circuit	D. H. Jacobsohn, L. C. Merrill
2,869,979	Slurry Solvent Extraction Process for the Recovery of Metals from Solid Materials	R. R. Grinstead
2,869,980	Process for the Recovery of Metals from High-Lime Carnotite Ores	R. R. Grinstead
2,869,981	Process of the Purification of Uranium	S. Rosenfeld (Deceased)
2,869,982	Recovery of PuValues by Fluorination and Fractionation	H. S. Brown, D. S. Webster
2,869,983	Separation of Metal Salts by Adsorption	D. M. Gruen
2,870,031	Graphite Extrusions	T. M. Benziger
2,870,075	Nuclear Reactor Unloading	M. C. Leverett, J. P. Howe
2,870,076	Method and Apparatus for Improving Performance of a Fast Reactor	L. J. Koch
2,870,339	Fabrication of Neutron Sources	J. H. Birden
2,870,407	Method of Peak Current Measurement	G. E. Baker
2,870,484	Spherical Die	J. P. Livingston

2,870,907	Forming Tubes and Rods of Uranium Metal by Extrusion	E. C. Creutz
2,871,042	Supporting and Heat Insulation Means	B. W. Birmingham, E. H. Brown, R. B. Scott, P. C. Vander Arend
2,871,092	Niobium-Tantalum Separation	H. A. Wilhelm, R. A. Foos
*2,871,176	(See bottom of page 50)	
2,871,251	Process for the Separation of Heavy Metals	J. W. Gofman, R. E. Connick, A. C. Wahl
2,871,361	Calutron Assembling and Disassembling Apparatus	R. E. Andrews
2,871,362	Calutron Assembling and Disassembling Means	R. E. Andrews, J. Thornton
2,871,363	Calutron Assembling and Disassembling Apparatus	R. E. Andrews
2,871,364	Calutrons	E. O. Lawrence (Deceased)
2,871,555	Method of Jacketing Fissionable Materials	L. M. Foster
2,871,558	Sheathing Uranium	E. W. Colbeck
2,872,105	Rotor End Cap	F. C. Rushing
2,872,284	Recovery of Protactinium	K. A. Kraus, G. E. Moore
2,872,285	Solvent Extraction of Uranium Values	H. M. Feder, M. Ader, L. E. Ross
2,872,286	Bismuth Phosphate Carrier Process for Pu Recovery	T. G. Finzel
2,872,287	Method of Separating Tetravalent Plutonium Values from Cerium Sub-group Rare Earth Values	R. B. Duffield, R. W. Stoughton
2,872,288	Carbonate Method of Separation of Tetravalent Plutonium from Fission Product Values	R. B. Duffield, R. W. Stoughton
2,872,296	Continuous Dissolver Extractor for Processing Metal	R. B. Lemon, J. A. Buckham
2,872,307	Thorium-Carbon Alloys	H. A. Wilhelm, R. E. Rundle
2,872,308	Metal Compositions	A. U. Seybolt
2,872,310	Zirconium Alloy	H. A. Wilhelm, D. Peterson, R. F. Russi, Jr.
2,872,343	Method of Protectively Coating Uranium	L. D. Eubank, S. Euclid, E. R. Boller
2,872,348	Fused Salt Method for Coating Uranium with a Metal	L. D. Eubank
2,872,361	Stripping Metal Coatings	H. T. Siefen, J. M. Campbell
2,872,363	Method of Working Beryllium	R. E. Macherey
2,872,387	Anodic Treatment of Uranium	M. Kolodney
2,872,389	Treatment of Uranium Surfaces	C. J. Slunder
2,872,394	Recovery of Uranium from Tungsten	K. C. Newman
2,872,398	Neutron-Irradiated Structures	E. L. Ashley, J. W. Ashley, H. W. Bowker, R. H. Hall, J. W. Kendall
2,872,399	Self-Reactivating Neutron Source for a Neutronic Reactor	H. W. Newsom
2,872,400	Reactor Monitoring	S. J. Bughee, V. Hanson, D. F. Babcock
2,872,401	Jacketed Fuel Element	E. P. Wigner, L. Szilard
2,872,402	Method of Preparation of Material for Neutron Bombardment	C. L. Ura, O. Sisman, R. B. Briggs
2,872,467	Preparation of Oxalates of Metals of Atomic Number Greater Than 88	R. B. Duffield
2,872,545	Remote Controlled Switching Device	J. C. Hobbs
2,872,574	Cloverleaf Cyclotron	E. M. McMillan, D. L. Judd
2,872,719	Method of Fabricating Small Spherical Pellets	H. C. Brassfield, C. T. Durham, Jr.
2,873,065	Differential Analyzer	E. G. Sorensen, C. M. Gordon
2,873,108	Apparatus for High Purity Metal Recovery	T. T. Magel
2,873,165	Uranium Recovery Process	R. H. Bailes, R. S. Long, R. S. Olson, H. O. Kerlinger
2,873,167	Processes of Reclaiming Uranium from Solutions	L. R. Zumwalt
2,873,168	Recovery of Pu from Cerium Trifluoride by Fluorination	H. S. Brown, E. G. Bohlmann

2,873,169	Basic Peroxide Precipitation Method of Separating Plutonium from Contaminants	G. T. Seaborg, I. Perlman
2,873,170	Anion Exchange Method for Separation of Metal Values	E. K. Hyde, B. A. Raby
2,873,174	Reactor Nozzle Assembly	F. C. Capuder, J. R. Dearwater
2,873,184	Thermal Decomposition of Uranium Compounds	T. T. Magel, L. Brewer
2,873,185	Deposition of Metal on Nonmetal Filament	T. T. Magel
2,873,186	Thorium-Silicon-Beryllium Alloys	F. G. Foote
2,873,209	Leveling Metal Coatings	H. A. Gage
2,873,238	Method of Making Jacketed Fuel Slug	L. A. Ohlinger, G. J.Young
2,873,242	Neutronic Reactor System	M. Treshow
2,873,243	Means for Shielding and Cooling Reactors	E. P. Wigner, L. A. Ohlinger, G. J. Young, A. M. Weinberg
2,873,375	Thermally Operated Vapor Valve	J. G. Dorward, Jr.
2,873,376	Ion Producing Mechanisms	W. M. Brobeck
2,873,388	Pulse Counter	D. E. Trumbo
2,873,400	Ion Switch	B. Cook
2,873,603	Method of Testing Hermetic Containers	L. B. Borst
2,873,853	Canned Slug	M. Burton
2,874,025	Oxidation of Transuranic Elements	R. L. Moore
2,874,026	Process of Preparing a Fluoride of Tetravalent Uranium	E. J. Wheelwright
2,874,106	Homogeneous Nuclear Reactor	R. P. Hammond, H. M. Busey
2,874,107	Device for Treating Materials	L. A. Ohlinger, G. J. Young F. Seitz
2,874,108	Test-Hole Construction for a Neutronic Reactor	L. A. Ohlinger, G. J. Young F. Seitz
2,874,109	Means for Terminating Nuclear Reactions	C. M. Cooper
*2,871,176	Nuclear Reactor Component Cladding Material	J. E. Draley, W. E. Ruther
2,874,235	Ultra-Stabilized D. C. Amplifier	E. C. Hartwig, R. W. Kuenning, R. C. Acker
2,874,295	Mass Separators	F. Oppenheimer, J. W. Bell
2,874,296	Calutron Ion Source	E. J. Lofgren
2,874,305	Radiation Integrator	H. N. Wilson, P. M. Glass
2,874,306	Measuring Apparatus	T. P. Kohman, B. B. Weissbourd
2,874,307	Reactor Shield	E. P. Wigner, L. A. Ohlinger, G. J. Young, A. M. Weinberg
2,874,326	Linear Accelerator	N. C. Christofilos, I. J. Polk
2,874,459	Method and Apparatus for Fabricating Tubular Units	G. W. Haldeman
2,874,852	Elevating Mechanism	H. S. Frederick, M. A. Kinsella
2,874,860	Hand Truck for Handling Equipment	D. W. King
2,875,021	Method of Separating Uranium Values, Plutonium Values and Fission Products by Chlorination	H. S. Brown, G. T. Seaborg
2,875,022	Method of Forming Plutonium-Bearing Carrier Precipitates and Washing Same	B. F. Faris
2,875,023	Process of Recovering Uranium from Its Ores	P. Galvanek, Jr.
2,875,024	Separation of Barium Values from Uranyl Nitrate Solutions	E. R. Tompkins
2,875,025	Process of Forming Plutonium Salts from Plutonium Oxalates	C. S. Garner
2,875,026	Precipitation Method of Separating Plutonium from Contaminating Elements	R. B. Duffield
2,875,041	Method of Making Alloys of Beryllium with Plutonium and the Like	O. J. C. Runnals
2,875,143	Push-Pull Power Reactor	D. K. Froman
2,875,285	Detector for Telephone Surreptitious Listening Techniques	E. D. Hightower
2,875,339	Calutron Ion Source	W. M. Brobeck

2,875,343	Personnel Dosimeter	R. D. Birkhoff, H. H. Hubbell, Jr., R. M. Johnson, Jr.
2,875,345	Method and Apparatus for Handling Radioactive Products	D. Nicoll
2,875,346	Overall Optical Viewer	C. S. Monk
2,876,867	Brake Device	T. J. O'Donnell
2,876,949	Centrifugal Separators	C. Skarstrom
2,877,087	Uranium Separation Process	W. H. McVey, W. H. Reas
2,877,088	Method and Apparatus for Making Uranium-Hydride Compacts	W. W. Wellborn, J. R. Armstrong
2,877,089	Elution of Uranium from Resin	D. C. McLean
2,877,090	Process Using Bismuth Phosphate as a Carrier Precipitate for Fission Products and Plutonium Values	T. G. Finzel
2,877,091	Dehydration of Deuterium Oxide Slurries	C. F. Kiskey
2,877,092	Coordination Compound-Solvent Extraction Process for Uranium Recovery	W. H. Reas
2,877,093	Adsorption Method for Separating Metal Cations	E. R. Tompkins, G. W. Parker
2,877,094	Adsorption Method for Separating Metal Cations	J. X. Khym
2,877,109	Process for Separating Uranium Fission Products	F. H. Spedding, T. A. Butler, I. B. Johns
2,877,131	Method and Coating Composition for Protecting and Decontaminating Surfaces	D. C. Overhold, M. D. Peterson
2,877,149	Method of Hot Rolling Uranium Metal	A. R. Kaufmann
2,877,170	Support Device for Use in a Nuclear Reactor	F. G. Greenhalgh, E. Long
2,877,171	Means for Shielding Reactors	M. Burton, L. T. McClinton, W. M. Garrison
2,877,250	Recovery of Uranium Values	K. B. Brown, D. J. Crouse, Jr. J. G. Moore
2,877,314	Electric Contact Means	J. W. Grear, Jr.
2,877,348	Logarithmic Amplifier	E. J. Wade, R. S. Stone
2,877,406	Non-Destructive Method and Means for Flaw Detection	R. Hochschield
2,877,408	Inspection Means for Induction Motors	A. W. Williams
2,877,447	Binary Excess-3 Converter	C. M. Kenrich, B. L. Crew
2,878,100	Formation of Uranium Precipitates	J. M. Googin, Jr.
2,878,382	Precision Time-Delay Circuit	R. Crevaling
2,878,387	Beam Control Probe	A. W. Chesterman
2,878,401	High Voltage Generator	A. J. Schemin
2,879,130	Process for Recovering Uranium	G. E. MacWood, C. W. Wilder, D. Altman
2,879,144	Pumps	J. D. Thornton
2,879,216	Neutronic Reactor	H. Hurwitz, Jr., C. Mannal, E. A. Luebke, J. H. Payne, H. Brooks
2,879,228	Process for Purifying Crude Perfluorocarbons	R. E. Holeton
2,879,247	Molded Sealing Element	B. W. Bradford, W. J. Skinner
2,879,664	Annular Impactor Sampling Device	G. W. C. Tait
2,880,059	Production of Uranium-Calcium Fluroide	W. B. Tolley
2,880,155	Control for Neutronic Reactor	H. V. Lichtenberger, R. A. Cameron
2,880,262	Structure for Sub-Assemblies of Electronic Equipment	P. R. Bell, C. C. Harris
2,880,318	Peak Limiting Amplifier	W. W. Goldsworthy, J. B. Robison
2,880,636	Cutting and Wedging Jacket Remover	M. Freedman, S. Raynor
2,881,094	Process of Coating with Nickel by the Decomposition of Nickel Carbonyl	T. B. Hoover
2,881,391	Velocity Indicator for Extrusion Press	F. J. Digney, Jr., N. Augusta, F. Bevilacqua
2,881,619	Coaxial Control Rod Drive Mechanism for Neutronic Reactors	R. J. Fox, L. C. Oakes

2,882,123	Process for the Recovery of Uranium from Phosphatic Ore	R. S. Long
2,882,124	Solvent Extraction Process for Plutonium	G. T. Seaborg
2,882,125	Volatile Fluoride Process for Separating Plutonium from Other Materials	F. H. Spedding, A. S. Newton
2,882,129	Nitric Acid Recovery from Waste Solutions	A. S. Wilson
2,882,248	Ion Exchange Substances by Saponification of Allyl Phosphate Polymers	J. Kennedy
2,882,396	High Energy Particle Accelerator	E. D. Courant, H. S. Snyder, M. S. Livingston
2,882,406	Ion Source Unit for Calutron	D. H. Sloan, H. P. Yockey, F. H. Schmidt
2,882,407	Calutron	E. O. Lawrence (Deceased) W. H. Brobeck
2,882,408	Ion Source for a Calutron	E. J. Lofgran
2,882,409	Dual Heated Ion Source Structure Having Arc Shifting Means	E. O. Lawrence (Deceased)
2,882,410	Ion Source	W. H. Brobeck
2,882,411	Ion Producing Mechanism	F. F. Oppenheimer
2,882,442	Method for Stabilizing Klystrons	D. W. Magnuson, F. F. Smith
2,883,264	Solvent Extraction of Thorium Values from Aqueous Solutions	J. C. Warf
2,883,330	Liquid Metal Compositions Containing Uranium	R. J. Teitel
2,883,535	Thryatron Switch	R. Creveling, N. A. Bourgeois, Jr.
2,883,536	Electronic Phase Control Circuit	J. D. Salisbury, W. W. Klein, C. F. Hansen
2,883,541	Ion Producing Mechanism (Charge Cups)	W. H. Brobeck
2,883,551	High Voltage Generator	G. V. Zito
2,883,553	Fabrication of Neutron Sources	J. H. Birden
2,883,580	Pulsed Ion Source	W. D. Kilpatrick
2,884,305	Plutonium Purification Process Employing Thorium Pyrophosphate Carrier	E. L. King
2,884,364	Method of Electroplating on Uranium	E. W. Rebol, R. F. Wehrmann
2,884,529	Gaseous Scintillation Counter	C. Eggler, C. M. Huddleston
2,885,260	Method for Decontamination of Reactor Solutions	W. J. Maraman, H. R. Basman, R. D. Baker
2,885,283	Plutonium-Aluminum Alloys	F. W. Schonfeld, C. R. Tipton, Jr.
2,885,329	Method for Electro-Nickel Plating Wolfram Carbide	H. L. Slatin
2,885,335	Nuclear Reactor Fuel Element	R. V. Moore, G. Packman
2,885,496	Low-Level Direct Current Modulator	Q. A. Kerns
2,885,497	Drift Compensated Direct Coupled Amplifier	A. A. Windsor
2,885,552	Particle Beam Tracking Circuit	O. A. Anderson
2,885,893	Reactor Control Mechanism	J. A. Lane, R. E. Engberg J. M. Welch
2,886,406	Recovery of Plutonium and Neptunium from Aqueous Solutions	G. T. Seaborg, R. C. Thompson, F. W. Albough
2,886,407	Treatment of Plutonium Solution with No or NO_2 Prior to Removal of Tetravalent Plutonium from said Solutions by Carrier Precipitation	G. E. Moore
2,886,408	Enhancing Precipitations by Applying Soluble Complex Fluorine - Containing Reagents	G. W. Stahl
2,886,409	Improved Processes for Recovering and Purifying Uranium	T. D. Price, A. V. Henrickson
2,886,410	Non-Aqueous Dissolution of Massive Plutonium	J. G. Reavis, J. A. Leary K. A. Walsh
2,886,429	Method for the Reduction of Uranium Compounds	W. H. Cooke (Deceased) J. W. C. Crawford
2,886,430	Uranium Compositions	N. P. Allen, J. D. Grogan
2,886,431	Vanadium Alloys	K. F. Smith, R. J. Van Thyne
2,886,433	Production of Sheet from Particulate Material	A. Blainey

2,886,468	Nickel Plating Process	T. B. Hoover, T. E. Zava
2,886,503	Jacketed Fuel Elements for Graphite Moderated Reactors	L. Szilard, E. P. Wigner, E. C. Creutz
2,886,504	Plutonium-Cerium-Copper Alloys	A. S. Coffinberry
2,886,775	Variable Time-Interval Generator	J. E. Gross
2,887,355	Method of Preparing Protactinium Values	L. I. Katzin, R. G. Larson, R. C. Thompson, Q. Van Winkle
2,887,357	Dry Fluorine Separation Method	G. T. Seaborg, J. W. Gofman, R. W. Stoughton
2,887,358	Large Scale Method for the Production and Purification of Curium	G. H. Higgins, W. W. T. Crane
2,887,373	Method of Cleaning Metal Surfaces	H. W. Winkler, J. W. Morfitt, T. H. Lit le
2,887,876	Apparatus for Testing Expansion of Movable Members	M. Frankel, W. B. Shank
2,888,563	Calutron Cathode Interlock Circuit	L. W. Baldwin
2,888,564	Calutron Protective Circuit	F. H. Schmidt
2,888,565	Calutron	W. M. Brobeck
2,888,566	Ion Source Slit Cleaner for Calutron	E. O. Lawrence (Deceased)
2,888,878	Neutronic Reactor Fuel Pump	W. G. Cobb
2,889,462	Calutron Ion Source	F. F. Oppenheimer
2,890,098	Reduction of Plutonium Values in an Acidic Aqueous Solution with Formaldehyde	C. M. Olson
2,890,099	Recovery of Uranium from Low Grade Uranium Bearing Ores	H. B. Rhodes, W. F. Pesold, J. M. Hirshon
2,890,110	Production of Plutonium from Plutonium Fluoride	R. D. Baker
2,890,158	Neutronic Reactor	L. A. Ohlinger, E. P. Wigner A. M. Weinberg, G. J. Young
2,890,221	Method for Preparing Normorphine	H. Rapoport, M. Look
2,890,337	Ion Beam Focusing Means for Calutron	J. G. Backus
2,890,338	High Voltage Regulator	B. T. Wright
2,890,339	Ion Producing Mechanism	F. P. Oppenheimer
2,890,340	Calutron	W. M. Brobeck, E. J. Lofgren, R. L. Thornton
2,890,348	Particle Accelerator	T. Ohkawa
2,890,932	Separation by Adsorption	C. S. Lowe
2,890,933	Recovery of Uranium Values from Uranium Bearing Raw Materials	E. J. Michel, R. R. Porter
2,890,954	Plutonium Alloys	W. Chynoweth
2,891,155	Precision Time Delay Generator	B. J. Carr, V. D. Peckham
2,891,161	Calutron	W. E. Parkins
2,891,162	Calutron Receiver	S. W. Barnes
2,891,163	Calutron	A. F. Clark
2,891,168	Portable Source of Radioactivity	R. C. Goertz, K. R. Ferguson, E. W. Rylander, L. M. Safranski
2,891,839	Production of Curium 245	E. K. Hulet, S. G. Thompson
2,891,840	Method of Processing Neutronic Reactor Fuel Elements	M. H. Curtis
2,891,841	Recovery of Plutonium Values from Dilute Solution by Partial Precipitation of Carrier Compounds	D. M. Ritter
2,892,044	Linear Amplifier	E. Fairstein
2,892,091	Continuous Alpha Air Monitor	D. R. Sawle
2,892,114	Continuous Plasma Generator	W. K. Kilpatrick
2,892,387	Internal Cutting Device	W. H. Russell, Jr.
2,892,676	Improved Process of Plutonium Carrier Precipitation	B. J. Faris
2,892,677	Separation of Uranium from Thorium and Protactinium	W. K. R. Musgrave
2,892,678	Method of Maintaining Plutonium in a Higher State of Oxidation During Processing	S. G. Thompson, D. R. Miller
2,892,679	Ion-Exchange Method for Separating Radium from Radium-Barium Mixtures	M. E. Fuenteville
2,892,680	Recovery of Cesium from Waste Solutions	W. H. Burgus
2,892,681	Separation Process for Zirconium and Compounds Thereof	H. W. Crandall, J. R. Thomas

2,892,701	Pyrochemical Decontamination Method for Reactor Fuel	A. G. Buyers
2,892,765	Neutron Density Control in a Neutronic Reactor	G. J. Young
2,892,855	Recovery of Uranium by Cycloalkyldi-Thiocarbamate Complexing	O. R. Neville
2,893,575	Loading Machine for Reactors	S. L. Simon
2,893,822	Separation of Uranium From Other Metals	H. H. Hyman
2,893,823	Separation of Uranium from Thorium	N. H. Hellman
2,893,824	Uranium Recovery Process	H. H. Hyman, J. H. Dreher
2,893,825	Separation of Protactinium from Contaminants	J. G. Malm, S. Fried
2,893,826	Platinum Hexafluoride and Method of Fluorinating Plutonium Containing Mixtures Therewith	J. G. Malm, B. Weinstock, H. H. Claassen
2,893,827	Separation of Americium from Promethium	R. S. Pressly
2,893,863	Process for Removing Aluminum Coatings	J. Flox
2,893,928	Preparation of Plutonium	M. Kolodney
2,893,936	Process for Continuously Separating Irradiation Products of Thorium	L. P. Hatch, F. T. Miles, T. V. Sheehan, R.H. Wiswall, R. J. Heus
2,894,135	Charge Bottle for a Mass Separator	P. H. Davidson
2,894,137	Calutron Receiver	H. F. York
2,894,138	Slit Adjustment Clamp	K. R. McKenzie
2,894,320	Coating Uranium from Carbonyls	D. H. Gurinsky, S. Steingiser
2,894,647	Positioning Device	W. H. McCorkle
2,894,688	Electronic Analog Computer for Determining Radioactive Disintegration	H. P. Robinson
2,894,804	Process of Extracting Uranium and Radium from Ores	C. W. Sawyer, R. W. Handley (Deceased)
2,894,805	Separation Process for Actinide Elements and Compounds Thereof	L. B. Werner, I. Perlman, M. Calvin
2,894,806	Recovery of Protactinium from Aqueous Solutions	R. E. Elson
2,894,807	Cation Exchange Method for the Recovery of Protactinium	J. C. Sullivan
2,894,808	Method for Recovering Uranium from Oils	L. H. Gooch
2,894,810	Columbic Oxide Adsorption Process for Separating Uranium and Plutonium Ions	R. H. Beaton
2,894,811	Process for Making Uranium Hexafluoride	R. Rosen
2,894,812	Dissolution of Plutonium Containing Carrier Precipitate by Carbonate Metathesis and Separation of Sulfide Impurities Therefrom by Sulfide Precipitation	R. B. Duffield
2,894,816	Solvent Extraction of Ruthenium	H. H. Hyman, C. R. Leader
2,894,817	Polonium Separation Process	D. G. Karraker
2,894,818	Separation of Ruthenium from Aqueous Solutions	M. Beederman, S. Vogler, H. H. Hyman
2,894,827	Uranium Separation Process	E. K. Hyde, L. I. Katzin, M. J. Wolf
2,894,832	Process of Producing Actinide Metals	T. T. Magee
2,894,837	Method for Producing Cemented Carbide Articles	E. I. Onstott
2,894,866	Method for Annealing and Rolling Zirconium Base Alloys	M. L. Picklesimer
2,894,883	Method of Electropolishing	D. E. Walker, R. A. Noland
2,894,884	Method of Applying Nickel Coatings on Uranium	A. C. Gray
2,894,885	Method of Applying Copper Coatings to Uranium	A. G. Gray
2,894,889	Jacketed Uranium Slugs and Method	S. H. Paine, Jr.
2,894,890	Jacketing Uranium	H. A. Saller (Deceased) J. R. Keeler
2,894,891	Nuclear Reactor	J. J. Grebe
2,894,892	Neutronic Reactor Charging and Discharging	W. H. Zinn
2,894,893	Fuel Element for Nuclear Reactor	K. G. Carney, Jr.
2,895,047	Timing Circuit	J. W. Boyd

2,895,051	Apparatus for Measuring Neutron Cross Sections	L. Cranberg
2,895,053	Measuring Projector	J. V. Franck, P. S. Broadhead, E. W. Skiff
2,895,791	Separation Process for Protactinium and Compounds Thereof	Q. Van Winkle
2,895,798	Barium Recovery Process	H. E. Blanco
2,895,806	Method for Determining the Stability of Fluorocarbon Oils	Z. D. Sheldon, H. M. Haendler
2,895,849	Method of Preparing Coated Refractory Ware	M. L. Perlman, D. Lipkin, S. I. Weissman
2,897,045	Extraction of Uranium	R. D. Kesler, D. D. Rabb
2,897,046	Separation of Thorium from Uranium by Extraction	E. G. Hohlmann
2,897,047	Method of Dissolving Metallic Uranium	W. W. Schulz
2,897,048	Uranium Recovery Process	J. W. Stevenson, R. G. Werkema
2,897,049	Treatment of Fission Product Waste	J. B. Huff
2,897,077	Plutonium-Uranium-Titanium Alloys	A. S. Coffinberry
2,897,124	Pretreating Thorium for Electroplating	J. G. Beach, G. R. Schaer
2,897,605	Method and Apparatus for Determining Charged Particle Motion	Q. A. Kerns
2,897,697	Method of Rolling Uranium	C. S. Smith
2,897,718	Dimension Measuring Optical Sighting Device	G. E. Kerr
2,898,185	Adsorption Method for Separating Thorium Values from Uranium Values	G. E. Boyd, E. R. Russell, J. Schubert
2,898,186	Solubilization of Actinide Metal-Containing Slag	H. H. Hopkins, Jr.
2,898,187	Production of Uranium Tetrafluoride	W. E. Shaw, R. M. Spenceley, F. M. Teetzel
2,898,203	Removal of Chloride from Aqueous Solutions	W. W. Schulz
2,898,252	Method of Heat-Treating Uranium-Silicon Alloys	S. T. Zigler
2,898,277	Method of Fixing Nitrogen for Producing Oxides of Nitrogen	P. Herteck, S. Dondes
2,898,280	Fuel Rod Clusters	A. B. Schultz
2,898,281	Neutronic Reactor Control	S. Untermyer, E. Hutter
2,898,444	Apparatus and Method for Welding End Closure to Container	E. C. Frantz, T. B. Correy
2,898,473	Method of Preparing Polonium-Boron Sources	J. H. Birden
2,898,497	Airborne Radiation Detector	T. R. Cartmell
2,898,555	Resonant Cavity Excitation System	W. R. Baker
2,899,054	Refractory Die for Extruding Uranium	E. C. Creutz
2,899,268	Recovery of Uranium from Aqueous Phosphate-Containing Solutions	I. Igelsrud, E. F. Stephan
2,899,269	Method of Preparing Metal Fluorides	J. J. Katz, I. Sheft
2,899,270	Production of Thorium Fluoride	W. H. Zachariasen
2,899,295	Separation of Tin from Alloys	W. T. Kattner
2,899,297	Method of Producing Dense Consolidated Metallic Regulus	T. T. Magel
2,899,298	Process of Producing Shaped Plutonium	R. J. Anicetti
2,899,451	Recovery of Uranium by Aromatic Dithiocarbemate Complexing	O. K. Neville
2,899,452	Thorium Oxalate-Uranyl Acetate Coupled Procedure for the Separation of Radioactive Materials	J. W. Gofman
2,899,557	Apparatus for Producing Shadowgraphs	R. R. Wilson
2,900,226	Recovery of Uranium Values from Residues	W. B. Schaap
2,900,228	Selective Separation of Uranium from Thorium, Protactinium and Fission Products by Peroxide Dissolution Method	G. T. Seaborg, J. W. Gofman,
2,900,229	Uranium Leaching and Recovery Process	L. A. McLaine
2,900,230	Method of Disintegrating Refractory Bodies	R. P. Larsen, R. C. Vogel

2,900,237	Apparatus for Charging a Receptacle with a Dense Sublimate Form or Uranium Chloride	P. H. Davidson
2,900,263	Method of Preparing a Fuel Element for a Nuclear Reactor	J. H. Handwerk, R. A. Bach
2,900,315	Sheathed Tube and Apparatus and Method of Production Thereof	L. A. Ohlinger
2,900,316	Reactor Control Device	H. B. Kaufman, Jr., A. Weiss
2,900,424	Method for Producing Isotopic Methanes and Partially Halogenated Derivatives Thereof	J. W. Frazer
2,900,516	Fast Neutron Spectrometer	F. J. Davis, P. W. Reinhardt, G. S. Hurst
2,900,518	Continuously Sensitive Bubble Chamber	R. H. Good
2,900,548	Plasma Generator	W. H. Bostick, V. G. McIntosh
2,901,007	Apparatus for Handling Mixtures of Solid Materials	J. P. Hubbell
2,901,172	Electronic Multiplier Circuit	R. E. Thomas
2,901,313	Separation of Plutonium from Water Insoluble Fluorides Derived from Nitrate Solutions of Plutonium Uranium and Fission Products	A. G. Maddock, F. Smith
2,901,314	Removal of Uranium from Organic Liquids	S. P. Vavalides
2,901,315	Process of Oxidizing Plutonium	C. D. Coryell
2,901,343	Dissolution of Aluminum Jackets from Uranium Cores by Nitric Acid Containing Mercuric Nitrate	J. H. Peterson
2,901,345	Plutonium-Cerium-Cobalt and Plutonium-Cerium-Nickel Alloys	A. S. Coffinberry
2,901,347	Nickel-Chromium-Germanium Alloys for Stainless Steel Brazing	J. A. McGurty, E. S. Funston
2,901,408	Coating Method	R. G. Townsend
2,901,496	Salicylate Process for Thorium Separation from Rare Earths	G. A. Cowan
2,901,613	Detector for Modulated and Unmodulated Signals	H. H. Patterson, G. H. Webber
2,901,617	Calutron Receiver	S. W. Barnes
2,901,619	Calutron Ion Source Slit Cleaner	A. M. Starr
2,901,620	Isotope Separating Apparatus Control	S. W. Barnes
2,901,621	Calutron Face Plate	W. M. Brobeck
2,901,622	Calutron Control Device	L. W. Baldwin
2,901,623	Vapor Valve	L. F. Wouters
2,901,624	Mass Spectrometry	A. O. C. Nier
2,901,714	Transformer	W. R. Baker
2,902,338	Separation of Thorium from Uranium	R. W. Bane
2,902,339	Recovery of Plutonium from Aqueous Solutions	E. J. Reher
2,902,340	Chemical Method of Treating Fissionable Material	C. M. Olson
2,902,361	Uranium-Tantalum Alloy	R. L. Reed
2,902,362	Plutonium-Uranium Alloy	F. W. Schonfeld, A. S. Coffinberry
2,902,380	Slip Casting Method	A. G. Allison
2,902,415	Purification of Uranium Fuels	L. W. Niedrach, A. C. Clann
2,902,422	Nuclear Reactor Fuel Rod Assembly	E. Hutter
2,902,423	Neutronic Reactor Producing Thermo-electric Power	E. A. Luebke, L. B. Vandenberg
2,902,424	Homogeneous Nuclear Power Reactor	L. D. P. King
2,902,454	Solvent Composition for Recovery of Metal Values from Aqueous Solutions by Solvent Extraction	R. L. Moore
2,902,503	Recovery of Uranium by Secondary Xanthate Complexing	O. K. Neville
2,902,590	Method of Making Composite Fuel Elements	R. A. Noland, C. C. Stone
2,902,614	Accelerated Plasma Source	W. R. Baker
2,903,331	Uranium Solvent Extraction Process	C. D. Harrington
2,903,332	Separation of Ruthenium from Aqueous Solutions	C. F. Callis, R. L. Moore

2,903,333	Rare Earth-Actinide Separation by Adsorption	C. S. Love, W. H. McVey
2,903,334	Preparation of Uranium Trioxide	J. S. Buckingham
2,903,335	Separation of Fission Products from Plutonium by Precipitation	G. T. Seaborg, S. G. Thompson, H. R. Davidson
2,903,351	Thorium-Beryllium Alloys and Method of producing Same	F. H. Spedding, H. A. Wilhelm, W. H. Keller
2,903,383	Radioactive Object and Method of Making	L. M. Dorfman, F. J. Shipko
2,903,402	Recovery of Valuable Material from Graphite Bodies	L. W. Froom, Jr.
2,903,581	Phase Detector	D. O. Kippenhan
2,903,586	Tapered Defining Slot	F. W. Pressey
2,903,587	Calutron Receiver Structure	J. L. Roush
2,904,168	Positioning Device	R. R. Wall, D. L. Peterson
2,904,429	Plutonium-Thorium Alloys	F. W. Schonfeld
2,904,487	Control Device	J. J. Dickson
2,904,488	Nuclear Reactor Fuel Systems	B. J. Thamer, R. M. Bidwell, R. P. Hammond
2,904,665	Vacuum Trap	H. S. Gordon
2,904,720	Ion Accelerator	J. S. Bell
2,905,338	Indexing Mechanism	L. J. Koch
2,905,525	Method of Separation of Plutonium from Carrier Precipitates	L. R. Dawson
2,905,527	Method of and Apparatus for Withdrawing Light Isotope Product from a Liquid Thermal Diffusion Plant	M. Dole
2,905,528	Method for Preparation of UO_2 Particles	J. R. Johnson, A. J. Taylor
2,905,552	Production of Uranium Metal by Carbon Reduction	R. B. Holden, R. M. Powers, O. J. Blaber (Deceased)
2,905,599	Electrolytic Cladding of Zirconium on Uranium	J. J. Wick
2,905,611	Fuel Element for a Neutronic Reactor	L. Tonks
2,905,612	Central Control System	L. B. Borst
2,906,597	Reduction in Pu Recovery Processes	D. M. Ritter, R. P. S. Black
2,906,598	Preparation of High Density UO_2	J. M. Coogin
2,906,618	Process for Production of Uranium	J. W. C. Crawford
2,906,683	Reactor Cooling	C. F. Quackenbush
2,906,852	Welding Method	A. A. Cornell, J. V. Dunbar, J. H. Ruffner
2,906,872	Rise Time Delay Discriminator	C. W. Johnstone
2,906,876	Calutron Receiver	W. O. Brunk
2,906,877	Calutron	F. F. Oppenheimer
2,906,903	Low Voltage 14 Mev. Neutron Source	E. R. Graves, R. N. Little, Jr.
2,907,017	Impedance Alarm System	R. G. Cowen
2,907,023	Ground Clearance Indicator	L. V. Skinner
2,907,628	Neptunium Solvent Extraction Process	L. R. Dawson, P. R. Fields
2,907,629	Continuous Process for the Conversion of UF_6 to UF_4	S. H. Smiley, D. C. Brater, R. H. Nimmo
2,907,630	Preparation of Uranium Hexafluoride	S. Lawroski, A. A. Jonke, R. K. Steunenberg
2,907,631	Method of Reducing Plutonium with Ferrous Ions	J. L. Dreher, D. E. Koshland S. G. Thompson, J. E. Willard
2,907,689	Method of Controlling Corrosion in a Neutronic Reactor	C. P. Kidder, C. K. Sloan
2,907,700	Stripping Process for Plutonium	M. Kolodney
2,907,705	Thermal Fission Reactor Compositions and Method of Fabricating Same	A. Blainey
2,907,706	Neutronic Reactor Fuel Element	W. A. Horning, D. D. Lanning, D. J. Donahue
2,907,897	Pressure Transducer	H. H. Sander
2,908,547	Separation of Uranium, Plutonium, and Fission Products	C. M. Nicholls, I. Wells, R. Spence
2,908,548	Manufacture of UF_4	W. S. Calcott

2,908,563	Process for Production of Plutonium from Its Oxides	S. I. Weissman, M. L. Perlman, D. Lipkin
2,908,621	Producing Energy and Radioactive Fission Products	E. Segre, J. W. Kennedy (Deceased), G. T. Seaborg
2,908,822	Apparatus for Measuring Total Neutron Cross Sections	L. Cranberg
2,909,405	Method for the Recovery and Purification of Berkelium	E. K. Hulet
2,909,406	Process for Decontaminating Thorium and Uranium with Respect to Ruthenium	A. B. Meservey, R. H. Rainey
2,909,486	Inhibiting the Polymerization of Nuclear Coolants	E. T. Colichman
2,909,487	Nuclear Reactor Coolant	E. T. Colichman
2,909,488	Nuclear Reactor Coolant	E. T. Colichman
2,909,731	Cavity Excitation Circuit	J. V. Franck
2,910,177	Reactor Component	E. C. Creutz
2,910,344	Method of Preparing UF_6	N. R. Davidson, S. Fried
2,910,345	Preparation of Polonium, Protactinium or Mixtures Thereof in Aqueous Solution from Bismuth, Lead, Zirconium and/or Columbium Values	Q. Van Winkle, K. A. Kraus
2,910,379	Method of Coating Graphite with Stable Metal Carbides and Nitrides	D. H. Gurinsky
2,910,416	Neutronic Reactor	P. Daniels
2,910,417	Uranium Bismuthide Dispersion in Molten Metal	R. J. Teitel, E. Patchogue
2,910,418	Neutronic Reactor	E. C. Creutz, L. A. Ohlinger, A. M. Weinberg, G. J. Young
2,910,442	Solvent for Extracting Actinide Salts	L. Kaplan
2,910,519	Method for Producing Isotopic Methanes from Lithium Carbonate and Lithium Hydride	J. W. Frazer
2,911,282	Method of Recovering Plutonium Values from Aqueous Solutions by Carrier Precipitate	R. A. James, S. G. Thompson
2,911,283	Process for Recovery of Uranium Values from Impure Solutions Thereof	S. B. Kilner
2,911,290	Multistage Fluidized Bed Reactor	A. A. Jonke, J. E. A. Graae, N. M. Levitz
2,911,344	Nuclear Reactor Control System	E. P. Epler, S. H. Hanauer, L. C. Oakes
2,911,533	Electron Irradiation of Solids	A. C. Damask
2,911,587	Proton Resonance Monitor	J. H. Bayly
2,911,598	Variable Time Delay Means	R. E. Clemenson
2,912,302	Processes for Separating and Recovering Constitutents of Neutron-Irradiated Uranium	R. E. Connick, G. C. Pimentel, J. W. Gofman
2,912,303	Dissolution of Lanthanum Fluoride Precipitates	B. A. Fries
2,912,577	Multichannel Analyzer	G. G. Kelley
2,913,307	Method of Preparing Plutonium Tetrafluoride	R. L. Beede, H. H. Hopkins, Jr.
2,913,510	Radioactive Battery	J. H. Birden, K. C. Jordan
2,913,670	Wide Band Regenerative Frequency Divider and Multiplier	E. F. Laine
2,914,378	Elution of Uranium Values from Ion Exchange Resins	R. H. Kennedy
2,914,399	Removal of Certain Fission Product Metals from Liquid Bismuth Compositions	O. E. Dwyer, H. E. Howe, E. R. Avrutik
2,914,425	Method for Soldering Normally Non-Solderable Articles	J. C. McGuire
2,914,433	Heat-Treated U-Nb Alloys	R. K. McGeary, W. H. Justusson
2,914,454	Neutronic Reactor Fuel Element	D. H. Gurinsky, R. W. Powell, M. Fox
2,914,594	Thermal Couple for Measuring Temperature in a Reactor	W. R. Kanne
2,914,697	Time Calibrated Oscilloscope Sweep Circuit	V. L. Smith, H. K. Carstensen
2,914,847	Solid State Bonding of Thorium with Aluminum	S. Storchhein

2,915,016	Volume Compensating Means for Pulsating Pumps	D. L. W. Weaver, R. S. MacCormack, Jr.
2,915,362	Plutonium-Hydrogen Reaction Product, Method of Preparing Same and Plutonium Powder Therefrom	S. Fried, H. L. Baumbach
2,915,387	Plutonium Cleaning Process	M. Kolodney
2,915,445	Formation of Intermetallic Compound Dispersions	J. S. Bryner
2,915,815	Method of Making Fuel Elements	C. H. Bean, R. E. Macherey
2,916,349	Continuous Chelation-Extraction Process for the Separation and Purification of Metals	H. W. Crandall, T. E. Hicks, B. Rubin, J. R. Thomas
2,916,710	Loaded Wave-Guides for Linear Accelerator	W. Walkinshaw, L. B. Mullett
2,916,809	Tungsten Base Alloys	D. H. Schell, H. Sheinberg
2,917,358	Uranous Iodate as a Carrier for Plutonium	D. R. Miller, G. T. Seaborg, S. G. Thompson
2,917,359	Separation of Fission Product Values from Hexavalent Plutonium by Carrier Precipitation	T. H. Davis
2,917,360	Method of Producing Tetrafluoride	W. B. Tolley, R. C. Smith
2,917,361	Method of Recovering Transuranic Elements for an Atomic Number Below 95	G. T. Seaborg, R. A. James
2,917,362	Method Of Oxidizing Plutonium Ion with Bismuthate Ion	C. S. Garner
2,917,382	Separation of Plutonium	H. M. Feder, R. L. Nuttall
2,917,383	Fabrication of Uranium-Aluminum Alloys	H. A. Saller, (Deceased)
2,917,406	Method of Increasing the Dispersibility of Slurry Particles	J. P. McBride
2,917,443	Nuclear Reactor	J. J. Grebe
2,917,444	Neutronic Reactor Control	R. S. Dreffin
2,917,445	Neutronic Reactor Control Rod Drive Apparatus	L. C. Oakes, C. S. Walker
2,917,597	Pressure Sensing Device	K. E. Pope
2,917,633	Radiation Detection and Telem ng System	H. K. Richards
2,917,647	Geiger-Muller Type Counter Tube	I. L. Fowler, L. A. K. Watt
2,918,349	Extraction of Plutonium Values from Organic Solutions	G. T. Seaborg
2,918,350	Uranium Decontamination	J. S. Buckingham, J. L. Carroll
2,918,366	Decontamination of Neutron-Irradiated Reactor Fuel	A. G. Buyers, E. E. Motta, F. D. Rosen
2,918,700	Radioactive Concentrator and Radiation Source	L. P. Hatch
2,918,717	Self-Sintering of Radioactive Wastes	E. C. Struxness, K. Z. Morgan, J. R. Johnson, T. N. McVay
2,919,175	Process of Recovering Uranium	S. B. Kilner
2,919,186	Uranium Alloys	E. W. Colbeck
2,919,236	Nuclear Reactor Including a Package Safety Device	W. H. Zinn
2,919,710	Two-Way Freeze Valve	K. D. Lantz, P. M. Clark
2,919,972	Removal of Chloride from Aqueous Solutions	M. L. Hyman, J. E. Savolainen
2,920,024	Molten Fluoride Nuclear Reactor Fuel	C. J. Barton, W. R. Grimes
2,920,025	Neutronic Reactor	J. B. Anderson
2,920,200	Ion Source	W. T. Leland
2,920,234	Device and Method for Producing a High Intensity Arc Discharge	J. S. Luce
*2,920,235 2,920,236	Apparatus for Heating Ions (See bottom of last page)	E. S. Chambers, A. A. Carren, D. G. Kippenhan, W. A. S. Lamb, R. J. Riddell, Jr.
2,921,007	Thermal Neutronic Reactor	B. I. Spinrad
2,921,199	Method of Operating a Calutron	P. H. Davidson
2,921,850	Nickel - Base Alloy	H. Inouye, W. D. Manly, T. K. Roche
2,922,036	Paralyzer for Pulse Height Distribution Analyzer	E. Fairstein
2,922,044	Calutron	E. J. Lofgren

2,922,048	High Coaxial Photomultiplier Tube	N. W. Glass
2,922,061	Particle Accelerator	L. C. Teng
2,922,711	Production of Purified Uranium	L. Burris, Jr., J. B. Knighton, H. M. Feder
2,922,882	Control System for Isotope Separating Apparatus	S. W. Barnes
2,922,886	Method and Apparatus for Testing the Presence of Specific Atomic Elements in a Substance	J. L. Putman
2,922,890	Magnetic Method for Producing High Velocity Shock Waves in Gases	V. Josephson
2,823,588	Random Pulse Generator	W. G. Nielson
2,923,601	Method of Isotope Concentration	T. I. Taylor, W. Spindel
2,923,607	Process of Separating Zirconium Values from Hafnium Values by Solvent Extraction with an Alkyl Phosphate	D. F. Peppard
2,923,670	Method and Means for Electrolytic Purification of Plutonium	C. W. Bjorklund, R. Benz, W. J. Haraman, J. A. Leary, K. A. Walsh
2,923,822	Electromagnetic Separation of Isotopes	S. W. Barnes, C. M. Cantrell
2,923,852	Apparatus for Producing High Velocity Shock Waves & Gases	F. R. Scott, V. Josephson
2,924,294	Apparatus for Cleaning Gases with Electrostatically Charged Particles	H. F. Johnstone
2,924,483	Fuel Handling Mechanism	L. J. Koch, E. Hutter
2,924,506	Solvent Extraction Process for Plutonium	H. H. Anderson, L. B. Asprey
2,924,877	Method of Jacketing a Fissionable Body	E. C. Creutz
2,925,322	Method of Separating Plutonium	H. G. Heal
2,925,323	Method for the Recovery of Cesium Values	S. J. Rimshaw
2,925,327	Continuous Gas Analyzer	S. Katz, C. W. Weber
2,925,431	Cationic Exchange Process for the Separation of Rare Earths	G. R. Choppin, S. G. Thompson, S. C. Harvey
2,925,509	Low Energy Counting Chambers	P. M. Hayes
2,925,512	High Energy Gaseous Discharge Device	V. Josephson
2,926,067	Concentration of Pu Using an Iodate Precipitate	B. A. Frier
2,926,068	Method for the Preparation of Plutonium Halides and Oxylialides	W. R. Davidson, J. J. Katz
2,926,083	Ternary Alloy-Containing Plutonium	J. T. Waber
2,926,111	Method of Forming a Protective Coating on Ferrous Metal Surfaces	D. G. Schweitzer, J. R. Weeks, O. F. Kammerer, D. H. Gurinsky
2,926,113	Heat Treated U-Mo Alloy	R. K. McGeary, W. H. Justusson
2,926,127	Neutronic Reactor with Accessible Thimble and Emergency Cooling Features	W. H. McCorkle
2,926,251	Ion Acceleration System	J. S. Luce, J. A. Martin
2,926,261	Ultrasonic Neutron Dosimeter	R. Truell, J. de Klerk, P. W. Levy
2,927,070	Control Limiter Device	J. A. De Shong, Jr.
2,927,071	Jacketed Uranium Nuclear Reactor Fuel Element	W. R. Huey
2,927,165	Non-Blocking Stabilized Feed Back Amplifier	E. Fairstein
2,927,232	Intense Energetic Gas Discharge	J. S. Luce
2,928,168	Iron Coated Uranium and Its Production	A. G. Gray
2,928,721	Method for Producing Thorium Tetrachloride	E. A. Mason, C. M. Cobb
2,928,779	Neutronic Reactor Construction and Operation	J. T. Waillis, J. M. West
2,928,780	Source of Products of Nuclear Fission	P. Harteck, S. Dondes
2,928,781	Cooled Neutronic Reactor	E. P. Wigner, E. C. Creutz
2,928,910	Rotary Switch	J. P. E. Watterberg,
2,928,966	Arc Discharge and Method of Producing the Same	R. V. Heidigh
2,929,706	Delta Phase Plutonium Alloys	E. M. Cramer, F. H. Ellinger, C. C. Land
2,929,707	Method of Fabricating a Uranium-Zirconium Hydride Reactor Core	I. F. Weeks, W. V. Goeddel

2,929,741	Method for Coating Graphite with Metallic Carbides	M. A. Steinberg
2,929,767	Convection Reactor	R. P. Hammond, L. D. King
2,929,768	Nuclear Reactor Core Design	J. E. Mahlmeister, W. S. Peck, W. V. Haberer, A. C. Williams
2,929,932	Radiation Measuring Devices	G. M. B. Bouricius, G. K. Rusch
2,929,951	Ion-Stabilized Electron	D. Finkelstein
2,930,738	Regeneration of Reactor Fuel Elements	W. E. Roake, W. L. Lyon
2,931,570	N^2 Scaler	C. W. Johnstone
2,931,701	Process for Separating Plutonium by Repeated Precipitation with Amphoteric Hydroxide Carriers	B. F. Faris
2,931,702	Metathesis of Plutonium Carrier Lanthanum Fluoride Precipitate with an Alkali	R. B. Duffield
2,931,706	Preparation of Dibasic Aluminum Nitrate	A. T. Gresky, E. O. Nurmi, D. L. Foster, R. P. Wischow, J. E. Savlainan
2,931,721	Regeneration of Reactor Fuel Elements	W. L. Lyon
2,931,761	Neutronic Reactor Control	H. Hurwitz, Jr.
2,931,762	Neutronic Reactor	E. Fermi (Deceased)
2,931,889	Apparatus for Arc Welding	J. W. Lingafelter
2,931,939	Electron Gun	N. C. Christofilos, K. W. Ehlers
2,932,887	Method and Alloy for Bonding to Zirconium	F. D. McCusig, R. D. Misch
2,933,369	Concentration of Pu Using Oxalate Type Carrier	D. M. Ritter, R. P. S. Black
2,933,421	Dissolution Method of Removing Bonding Agents	H. H. Hyman
2,933,442	Electromuclear Reactor	E. O. Lawrence, E. M. McMillan, L. W. Alvarez
2,933,611	Neutron Source	J. S. Foster, Jr.
2,933,630	High Voltage Ion Source	J. S. Luce
2,934,402	Precipitation Method for The Separation of Plutonium and Rare Earths	S. G. Thompson
2,934,403	Recovery of Americium	M. Ader, H. H. Hyman
2,934,404	Scavenger and Process of Scavenging	C. M. Olson
2,934,425	Method for Purifying Uranium	J. B. Knighton, M. M. Feder
2,934,478	Process of Electroplating Metals with Aluminum	W. C. Schickner
2,934,482	Nuclear Reactor Fuel Element and Method of Manufacture	H. Brooks
2,934,483	Process of Making Fuel Elements for Neutronic Reactors and Articles Produced Thereby	W. A. Bostrom, R. B. Roof, Jr.
2,935,401	Control Rod Alloy Containing Noble Metal Additions	W. K. Anderson, W. E. Ray
2,935,456	Variable Area Control Rod for Nuclear Reactor	N. E. Huston
2,935,686	Frequency Stabilizing System	Q. A. Kerns, O. A. Anderson
2,936,110	Method of Centrifuge Operation	K. Cohen
2,936,119	Simultaneous Differential	D. M. Collier, L. A. Macke, J. P. Palmer
2,936,213	Process of Reducing Plutonium to Tetravalent State	D. F. Mastick
2,936,231	Separation of Rare Earth Metal Fission Products from Liquid U-Bi	R. H. Wiswall
2,936,273	Steam Forming Neutronic Reactor and Method of Operating It	S. Untermyer
2,936,274	Determination of Specific Neutronic Reactivity	G. Dessauer
2,936,277	Reactor Control System	J. H. MacNeill, J. Y. Estabrook
2,936,318	Fission Product Removal From Organic Solutions	R. M. Moore
2,936,363	Apparatus and Method for Arc Welding	R. A. Holand, C. C. Stone
2,936,372	Radiation Dosimeter	W. R. Baldwell, Jr., G. D. Adams

2,936,401	Radiation Detector	H. H. Wilson, F. M. Class
2,937,438	Method for Joining Aluminum to Stainless Steel	L. C. Lamon
2,937,654	Tube Shearing Valve	L. B. Wilnor
2,937,924	Separation of Plutonium From Fission Products by a Colloid Removal Process	J. Schubert
2,937,925	Solvent Extraction Process for Uranium from Chloride Solutions	C. A. Blake, Jr., K. B. Brown, D. E. Horner
2,937,939	Method of Producing Niobium Metal	H. A. Wilhelm, E. R. Stevens
2,937,981	Suppression of Water Decomposition	A. O. Allen, C. J. Hochanadel
2,937,982	Method of Making UO_2-Bi Slurries	H. T. Hahn
2,937,984	Control Rod Drive	R. A. Chapellier
2,938,121	Personnel Neutron Docimater	J. J. Fitzgerald, C. G. Detwiler, Jr.
2,938,768	Method of Separating Pu From Methathesizing $BiPO_4$ Carrier	W. J. Know, S. G. Thompson
2,938,769	Separation of Hafnium from Zirconium	L. G. Overholser, C. J. Barton, Sr., J. W. Ramsey
2,938,784	Nuclear Fuel Composition	F. H. Spedding, H. A. Wilhelm
2,938,791	Method of Producing Shaped Bodies from Powdered Metals	A. Blainey
2,938,807	Method of Making Refractory Bodies	J. C. Anderson
2,938,843	Superheating in a Boiling Water Reactor	M. Treshow
2,938,844	Neutronic Reactor Counter Method and System	C. B. Graham, I. Spievak
2,938,846	Fuel Element Fabrication Method	J. N. Hix, J. E. Cunningham
2,938,996	High Pressure Dies	W. B. Wilson
2,939,633	Automatic Counter	H. P. Robinson
2,939,803	Method of Impregnating a Porous Material	G. N. Steele
2,940,819	Concentration Process for Plutonium Ions, in an Oxidation State not Greater than +4, in Aqueous Acid Solution	G. T. Seaborg, S. G. Thompson
2,940,915	High Temperature, High Power Heterogeneous Nuclear Reactor	R. P. Hammond, H. M. Busey,
2,941,933	Fuel Element for Nuclear Reactor	W. E. Roake, E. A. Evans, D. W. Brite
2,942,109	Scintillation Spectrometer	P. R. Bell, J. E. Francis
2,942,116	Neutron Absorption and Shielding Device	I. R. Axelrad
2,942,736	Crane Positioning Apparatus	W. Landsiedel, H. Wolff
2,942,937	Adsorption-Bismuth Phosphate Method for Separating Phosphate	E. R. Russell, A. W. Adamson, G. E. Boyd
2,942,938	Method of Dissolving Massive Plutonium	J. F. Facer, W. L. Lyon
2,942,939	Separation of Plutonium Values from other Metal Values in Aqueous Solutions by Selective Complexing and Adsorption	R. H. Beaton
2,942,943	Process for Separating Iodine-132 from Fission Products	M. W. Green, G. Samos, W. D. Tucker
2,942,944	Process of Preparing Zirconium Oxychloride	H. A. Wilhelm, M. L. Andrews
2,942,968	Method of Separating Uranium from Alloys	P. Chiott, H. E. Shoemaker
2,943,195	Heating and Cooling System for Calutron	A. H. Starr
2,943,275	Transformer for Joining Unbalanced to Balanced Transmission Means	B. J. Bittner, R. H. Opperman
2,943,921	Catalytic Recombiner for a Nuclear Reactor	L. D. P. King
2,944,258	Dual-Ridge Antenna	D. K. Yearout, H. L. Jergins
2,944,873	Single-Step Conversion UO_3 to UF_4	J. E. Moore
2,945,293	Process for Jacketing a Core	G. A. Last
2,945,740	Ruthenium Decontamination Method	A. T. Gresky
2,945,793	Process for Coloring Diamonds	R. A. Dugdale
2,945,794	Neutronic Reactor Operational Method and Core System	C. E. Winters, C. B. Graham, J. S. Culver, R. H. Wilson
2,945,972	Ion Source	C. W. Blue, J. S. Luce
2,946,914	Apparatus for Producing and Manipulating Plasmas	S. A. Colgate, J. P. Ferguson, H. P. Furth, R. E. Wright

2,946,699	Process of Impregnating Graphite with a Uranium Compound	M. C. Sanz, R. R. Randolph, C. Starr
2,947,080	Method of Making Fuel Elements	L. W. Katex, R. W. Campbell, R. H. W. Heartel
2,947,465	Means and Method for Producing a Vacuum	M. A. Otavka
2,947,471	Centrifuge End Cap	J. W. Beams, L. B. Snoddy (Deceased)
2,947,472	Centrifuge Apparatus	C. Skarstrom, K. Cohen, H. C. Urey
2,947,601	Complex Fluorides of Plutonium and an Alkali metal	G. T. Seaborg
2,947,621	Ternary Alloys of Uranium, Columbium, and Zirconium	F. C. Foote
2,947,676	Method of Making Wire Fuel Elements	J. L. Zambrow
2,947,774	Preparation of Alkyl Pyrophosphate Extractants	C. A. Levine, W. E. Skiens G. R. Moore
2,947,867	Control for Isotope Separating Apparatus	H. W. Brackney
2,947,902	Magnetic Grid	R. F. Post
2,948,572	Centrifuges	J. W. Beams, L. B. Snoddy (Deceased)
2,948,586	Fused Salt Process for Recovery of Values from Used Nuclear Reactor Fuels	R. H. Moore
2,949,045	Housings and Mountings for Centrifuges	F. C. Rushing
2,949,202	Loading and Unloading Device	M. Treshow
2,949,390	Method of Protecting Tantalum Crucibles against Reaction with Molten Uranium	H. M. Feder, H. R. Chellow
2,949,414	Self-Regulating Boiling-Water Nuclear Reactors	J. A. Ransohoff, J. D. Flawchan
2,949,416	Concentric Tubular Fuel Element	C. W. Wheelock
2,950,166	Method for Separation of Plutonium from Uranium and Fission Products by Solvent Extraction	G. T. Seaborg, W. J. Blaedel, M. T. Walling, Jr.
2,950,167	Method of Inhibiting Corrosion in Uranyl Sulfate Solutions	E. G. Bohlmann, J. C. Griess, Jr.
2,950,168	Concentration and Decontamination of Solutions Containing Plutonium Values by Bismuth Phosphate Carrier Precipitation Methods	G. T. Seaborg, S. G. Thompson
2,950,188	Method of Suppressing UAl_4 Formation in U-Al Alloys	H. L. Picklesimer, W. C. Thurber
2,950,388	Mass Spectrometer	F. A. White
2,950,604	Heat Transfer Method	W. R. Gambill, N. D. Greene
2,950,962	Reduction of Fluoride to Metal	O. N. Carlson, F. A. Schmidt F. H. Spedding
2,950,967	Plutonium-Zirconium Alloys	F. W. Schonfeld, J. T. Waber
2,951,018	Electrodeposition of Neptunium	G. T. Seaborg, A. C. Wahl
2,951,020	Method for Electrodepositing Polonium	R. F. Wehrmann
2,951,023	Method of Producing U^{233}	G. T. Seaborg, R. W. Stoughton
2,951,158	Radiation Wave Detection	L. F. Wouters
2,951,181	Sampling Oscilloscope	R. M. Sugerman, E. Patchogue
2,951,201	Zero-Time Indicator	H. H. Sander
2,951,448	Centrifugal Pump and Shaft Sealing Means	F. C. Rushing
2,951,729	Gas Bearing	C. W. Skarstrom
2,951,730	Cushioned Bearing	F. C. Rushing
2,951,731	Centrifuges	F. C. Rushing
2,951,740	Processing of Neutron-Irradiated Uranium	H. H. Hopkins, Jr.
2,951,793	Electrolysis of Thorium and Uranium	W. N. Hansen
2,952,012	Analog-to-Digital Data Converter	G. W. Rodgers, D. P. Anderson, G. R. Bussey, L. H. Minnear, J. E. Althouse
2,952,056	Apparatus and Method for Injection Casting	A. B. Shuck
2,952,139	Refrigeration System Especially for Very Low Temperature	P. B. Kennedy, H. R. Smith, Jr.
2,952,511	Separation of Plutonium Values from Uranium and Fission Product Values	A. G. Maddock, A. H. Booth

2,952,535	Sintering Metal Oxides	W. E. Roake
2,952,600	Neutronic Reactor Control Element	H. W. Newson
2,952,601	Nuclear Conversion Apparatus	G. T. Seaborg
2,952,603	Jacketed Fissionable Member	E. R. Boller, J. W. Robinson
2,952,640	Cesium Recovery from Aqueous Solutions	C. A. Goodall
2,952,641	Strontium Precipitation	T. R. McKenzie
2,952,802	Electromagnetic Release Mechanism	C. Michelson
2,953,510	Neutronic Reactor	H. L. Anderson
2,953,918	Range Increaser for Pneumatic Gauges	A. H. Fowler, G. B. Seaborn, Jr.
2,953,993	Pump Construction	G. Stricklard, F. L. Horn, H. T. White
2,954,157	Molecular Vacuum Pump	E. E. Eckberg
2,954,273	Process of Eliminating Hydrogen Peroxide in Solutions Containing Plutonium Values	J. G. Barrick, B. A. Fries
2,954,335	Neutronic Reactor	E. P. Wigner
2,954,421	Low-Loss Cable and Method of Fabrication	R. L. McCarthy, J. M. Stone
2,955,913	Separation of Rare Earths by Solvent Extraction	D. F. Peppard, G. W. Mason
2,955,937	Oxidation Resistant Chromium Alloy	J. A. McGurty, J. F. Collins, V. P. Calkins
2,955,997	Irradiation Method of Converting Organic Compounds	A. O. Allen, J. M. Caffrey, Jr.
2,956,169	Ion Pulse Generation	R. F. King, C. D. Moak, V. E. Parker
2,956,195	Hollow Carbon Arc Discharge	J. S. Luce
2,956,201	Particle Accelerator and Method of Controlling the Temperature Thereof	R. B. Neal, W. J. Gallagher
2,956,771	Mass Spectrometer Leak	W. R. Shields
2,956,858	Method of Separating Rare Earths by Ion Exchange	F. H. Spedding, J. E. Powell
2,957,080	Method and Means for Radiation Dosimetry	J. W. Schulte, J. F. Suttle
2,957,094	Neutron Source	N. K. Bernander, R. J. Jones
2,957,210	Cave Window	H. Levenson
2,957,709	Sealing Means for Relatively Rotatable Members	C. W. Skarstrom
2,958,779	Scintillation Exposure Rate Detector	W. G. Spear
2,959,326	Fluid Controlling Means	H. M. Pouliot
2,960,398	Direct Ingot Process for Producing Uranium	W. M. Leaders, W. S. Kuecht
2,960,653	Pulsed Indicator Circuit	W. I. Linlor, Q. A. Kerns
2,960,687	Coincidence Occurrence Indicator	G. H. Robison, N. Merrick, J. F. Dickson
2,961,159	Multi-Channel Electric Pulse Height Analyzer with Binary Coded Decimal Display	J. D. Gallagher, J. L. McKibben
2,961,390	Method of Preparing Uranium, Thorium, or Plutonium Oxides in Liquid Bismuth	J. K. Davidson, W. L. Robb
2,961,391	Water Boiler Reactor	L. D. P. King
2,961,392	Neutronic Reactors	E. P. Wigner
2,961,393	Power Breeder Reactor	H. O. Monson
2,961,415	Settable Neutron Radiation Shielding Material	I. R. Axelrad
2,961,558	Co-Axial Discharges	J. S. Luce, L. P. Smith
2,961,559	Methods and Means for Obtaining Hydromagnetically accelerated Plasma Jet	J. L. Marshall, Jr.
2,961,652	Radio Altimeters	R. W. Bogle
2,961,653	Radio Ranging Devices	R. W. Bogle
2,962,351	Treatment for Improving the Operation of Strong Base Anion Exchange Resins	P. C. Stevenson
2,963,223	Multiple Input Binary Adder Employing Magnetic Drum Digital Computing Apparatus	E. H. Cooke
2,964,124	Separation of Gases by Diffusion	R. E. Peierls, F. E. Simon, H. S. Arms
2,964,130	Separation of Ruthenium Compounds from Gaseous Mixtures	B. J. Herby, D. A. Hanson, C. E. May

2,964,710	Accelerator Target Positioner and Control Circuit Therefor	K. F. Stone, R. J. Force, W. W. Olson, D. S. Cagle
2,965,781	Neutron-Counter	S. B. Gunst, R. T. Bayard
2,965,840	Metal Resistivity Measuring Device	R. G. Meyers, C. J. Renkin, Jr.
2,966,709	Casting Furnaces	R. H. Ruppel, C. E. Winters
2,966,794	Deflection Pressure Tester	C. M. Cooper
2,966,799	Sensitive Pressure Gauge	W. P. Bell
2,967,141	Neutronic Reactor Fuel Element	M. L. Picklesimer, W. C. Thurber
2,967,209	Recovery of Ruthenium Values	W. E. Crummitt, W. H. Hardwick
2,967,257	Ion Pump	M. Milleron
2,967,809	Method and Apparatus for Controlling Direct-Cycle Neutronic Reactors	G. A. Reed
2,967,811	Fuel Elements for Thermal-Fission Nuclear Reactors	O. Flint
2,967,812	Neutronic Reactor Fuel Composition	W. C. Thurber
2,967,943	Gaseous Discharge Device	J. D. Gow
2,968,007	Automatic Frequency Control System	C. F. Hansen, J. D. Salisbury
2,968,183	Sampling System	B. A. Hannaford, C. L. Segaser, C. L. Terry, R. R. Rosenberg
2,968,547	Production of Plutonium Metal	W. L. Lyon, R. H. Moore
2,968,601	Fuel Element for Neutronic Reactors	T. C. Evans, E. G. Reasley, Jr.
2,968,602	Reactor-Flash Boiler-Flywheel Power Plant	E. Loeb
2,968,715	Fusion Welding Method and Apparatus	W. L. Wymand, W. I. Steinhamp
2,968,731	Beta-Gamma Personnel Dosimeter	D. M. Davis, E. D. Gupton, J. C. Hart, A. P. Hull
2,969,307	Method of Testing Thermal Neutron Fissionable Material for Purity	H. L. Anderson E. Fermi (Deceased)
2,969,308	Method of Producing Inergetic Plasma for Neutron Production	P. R. Bell, R. J. Mackin, Jr., A. Simon
2,969,309	Neutronic Reactor Fuel Element and Method of Manufacture	H. H. Finniston, G. S. Plail
2,969,310	Neutronic Reactor System	J. J. Goett (Deceased)
2,969,311	Means for Producing Plutonium Chain Reactions	E. P. Wigner, A. M. Weinberg
2,969,312	Type Fuel Element	H. O. Mouson
2,969,313	Nuclear Reactor	J. J. Grebe
2,969,507	Blocking Oscillator Double Pulse Generator Circuit	J. A. Haase
2,969,712	High Temperature Microscope and Furnace	D. M. Olson
2,969,915	Electronic Multiplier	D. M. Collier, L. A. Meeks, J. P. Palmer
2,970,035	Seperation of Plutonium Ions from Solution by Adsorption on Zirconium Pyrophosphate	R. W. Stoughton
2,970,050	Process for Removing Noble Metals from Uranium	J. B. Knighton
2,970,885	Corrosion Reduction	S. Greenberg, R. D. Misch, W. E. Ruther
2,971,153	Microwave Horns and Circuitry for Plasma Measurements	C. D. Wharton, A. L. Gardner
2,971,907	Filter Media and Method of Making	W. J. Smith
2,973,492	Pulse Inverting Transformer	D. A. Mack
2,974,006	Direct Coversion of Uranium Turnings to Uranium Tetrafluoride	O. E. Fry
2,974,012	Preparation of Beryllium Oxide of High Purity	R. Cooperstein, G. R. Anderson
2,974,096	Fuel Slug Rupture Detector	R. E. Paul
2,974,248	Neutron-Insensitive Beta-Gamma Dosimeter	J. A. Aurier, R. E. Zedler, G. S. Hurst
2,974,251	Method and Means for Increasing Electron Emission	A. J. Bureau
2,975,113	Method of an Irradiation Transmutation Capsule	C. M. Gordon
2,975,114	Reactor	S. E. Allison
2,975,115	Bellows Seal on Reactor Coolant Tube	E. P. Wigner, L. A. Ohlinger, C. J. Young

2,975,116	Neutronic Reactor	F. Daniels
2,975,117	Fast Neutron Reaction System	W. H. Zinn
2,975,119	Vertical Rod Drive Mechanism	C. D. Emmons
2,975,414	Radio Ranging Device	R. W. Bogle
2,975,770	Steam Generator	H. O. Monson
2,975,912	Charging Device	S. L. Handforth
2,976,121	Processing of Cesium Metal Cyanides	O. H. Koski
2,976,227	Neutronic Reactor	J. A. Wheeler
2,977,194	Method of Reducing Aqueous Radioactive Nuclear Wastes to Solid Form	J. W. Loeding, A. A. Jonke
2,977,204	Method of Improving Corrosion Resistance of Zirconium	D. W. Shannon
2,977,220	Process of Producing Uranium	T. K. Wood, (Deceased)
2,977,297	Reactor Fuel Assembly	E. A. Evans, R. J. Anicotti, W. E. Roake
2,977,814	Two-Speed Device	G. S. Brunson, Jr.
2,978,118	Manipulator For Slave Robot	R. C. Goertz, J. H. Grimson, F. A. Kohut
2,978,294	Solvent Extraction Process for Protactinium	E. K. Hyde, I. I. Katzin, M. J. Wolf
2,978,295	Recovery of Plutonium by Carrier Precipitation	R. H. Goeckermann
2,978,358	Method of Obtaining Uniform Coatings on Graphite	I. E. Campbell
2,978,398	Neutronic Reactor	H. E. Metcalf, H. W. Johnson
2,979,379	Extraction of Uranium	E. G. Schmieding, A. E. Ruehle
2,979,399	Preparation of Compacts made from Uranium and Beryllium by Sintering	R. P. Angier
2,979,620	Air Radioactivity Monitor	R. L. Bradshaw, J. W. Thomas
2,979,635	Clashing Beam Particle Accelerator	R. J. Burleigh
2,980,905	Radio Ranging Device	J. W. Gratian, A. Gratian, R. T. Nieset, M. E. Bourns, H. R. Crane
2,981,591	Method for Recovering Plutonium Values from Solution using a Bismuth Hydroxide Carrier Precipitate	B. F. Faris
2,981,592	Method and Apparatus for Calcining Salt Solutions	S. Lawroski, A. A. Jonke R. G. Taecker
2,981,643	Process for Descaling and Decontaminating Metals	R. D. Baybarz
2,981,672	Nuclear Reactor Fuel Element	W. E. Kingston
2,982,599	Production of Plutonium Fluoride from Bismuth Phosphate Precipitate Containing Plutonium Values	H. S. Brown, E. G. Bohlmann
2,982,600	Uranium Decontamination with Respect to Zirconium	S. Vogler, M. Baederman
2,982,601	Separation of Uranyl and Ruthenium Values by the Tributyl Phosphate Extraction Process	A. S. Wilson
2,982,603	Preparation of Anhydrous Cerium Chloride, Uranium Bromide, or Plutonium Fluoride	K. M. Harmon, E. Wichers
2,982,604	Preparation of Neptunium Hexafluoride	G. T. Seaborg, H. W. Brown
2,982,702	Pretreating Uranium for Metal Plating	R. F. Wehrmann
2,982,708	Fuel for Neutronic Reactors and Process of Making	B. M. Abraham, H. E. Flotow
2,982,709	Neutronic Reactor Design to Reduce Neutron Loss	F. T. Miles
2,982,710	Food Irradiation Reactor	C. F. Leyse, G. E. Putnam
2,982,711	System for Unloading Reactors	A. G. Rand, Jr.
2,982,713	Merchant Marine Ship Reactor	H. F. Sankovich, J. F. Mumm, D. C. North, Jr., H. R. Rock, D. K. Geston
2,982,785	Cesium Recovery	T. McKenzie, W. W. Schulz
2,982,917	Method and Apparatus for Pulsing A Charged Particle Beam	K. Aaland, R. W. Kuenning, R. K. Harmon
2,983,042	Tube Splitting Apparatus	C. E. Frantz, W. E. Cawley
2,983,144	Electronic Bivane Wind Direction Indicator	H. Moses

2,983,145	Specific Heat Indicator	F. L. Horn, J. E. Binns
2,983,658	Heterogeneous Nuclear Reactor Employing Small Unclad Bodies of Fissionable Material as Fuel	H. H. Hyman, J. J. Katz
2,983,659	Neutronic Reactor Burial Assembly	M. Treshow
2,983,660	Fabrication of Tube Type Fuel Element for Nuclear Reactors	E. Loeb, J. H. Nicklas
2,983,663	Fuel Element for Nuclear Reactors	C. H. Bassett
2,983,989	Broaching and Tube-Installing Apparatus	C. E. Frantz, W. E. Cawley
2,984,613	Fuel Element for Nuclear Reactors	C. H. Bassett
2,984,744	Means for Visualizing Fluid Flow Patterns	F. E. Lynch, L. D. Palmer, H. F. Peppendiek, C. M. Winn
2,984,833	Super-Regenerative Radio Ranging Device	R. T. Reeset, H. R. Crane, A. C. Gratian, J. W. Gratian
2,984,995	Modified Ball and Socket Coupling	D. D. Kalen
2,985,505	Salt Conversion Process	H. H. Van Tuyl
2,985,574	Overall Control System for High Flux Pile	H. W. Newson, E. P. Wigner, E. P. Epler, T. E. Cole
2,985,824	Nondestructive Eddy Current Testing	C. J. Ranken, Jr.
2,986,508	Neutronic Reactor Structure	A. M. Weinberg, H. C. Vernon
2,986,509	Fuel Element for Nuclear Reactor	J. G. Duffy, Jr.
2,986,510	Massive Leakage Irradiator	E. P. Wigner, L. Szilard, R. F. Christy, F. L. Friedman
2,986,772	Eccentric Rolling of Powder and Bonding Agent Into Spherical Pellets	G. Patton, Jr.
2,987,375	Purification of Fluoride Salts	W. R. Grimes
2,987,454	Electrolytic Process for Producing Metals	B. Kopelman, R. B. Holden
2,987,455	Method and Apparatus for Reactor Safety Control	N. E. Huston, R. G. Hoff, C. W. Wheelock
2,987,458	Twisted Ribbon Fuel Element	C. R. Breden, A. B. Schultz
2,987,816	Bonding Aluminum Metals	R. A. Noland, D. E. Walker
2,988,429	Spiral Contractor for Solvent Extraction Column	C. R. Cooley
2,988,697	Linear Selsyn or Snycro-transmitter	A. Hirsch
2,988,812	Method of Fabricating Tubular Units	L. A. Ohlinger
2,988,938	Control for Rolling Mill	A. B. Shuck, W. C. Shaw
2,989,367	Arsenate Carrier Precipitation Method of Separating Plutonium from Neutron Irridated Uranium and Radioactive Fission Products	S. G. Thompson, D. R. Miller, R. A. James
2,989,368	Cesium Recovery from Aqueous Solutions	R. A. Schneider
2,989,453	Pressure System Control	W. H. Esselman, G. M. Kaplan
2,989,454	Nuclear Reactor	G. R. Breden, J. R. Dietrich
2,989,556	Method of Preparing Complexes of Plutonium with Diketones	J. S. Dixon, J. J. Katz, E. F. Orlemann
2,990,240	Process for Segregating Uranium from Plutonium and Fission-Product Contamination	C. V. Ellison, T. C. Runion
2,990,241	Improvement in Decontamination of Aqueous Acidic Solutions Containing Plutonium and Fission Product Values by providing Cerous and/or Mercuric Ions Therein Prior to a Bismuth Phosphate Carrier Precipitation	B. F. Faris, H. K. Strassel
2,990,242	Extraction of Hexavalent Plutonium from Aqueous Acidic Solutions with Ethyl Sulfide	G. T. Seaborg
2,990,243	Adsorption of Plutonium and/or Fission Products from Aqueous Solution	R. H. Beaton
2,990,244	Extraction of Thorium and Uranium Values from Acid Leach Liquors	K. B. Brown, D. J. Crouse, Jr.
2,990,245	Metathesis of Bismuth Phosphate Plutonium Carrier Precipitate with an Alkali	I. Perlman, S. G. Thompson, B. B. Cunningham
2,990,273	Uranium Recovery from Metallic Masses	P. Chiotti
2,990,274	Uranium-Titanium-Niobium Alloys	S. Greenberg
2,990,348	Method and Apparatus for Producing [illegible]er	E. O. Hollan
2,990,349	Reactor	W. G. Roman

2,990,351	Nuclear Reactor Element	M. C. Sanz, C. N. Scully
2,990,352	Metal Sheathed Bodies	H. M. Finniston, L. M. Wyatt, O. S. Plail
2,990,353	Nuclear Reactor Control System	D. F. Howard, E. E. Motta
2,990,354	Nuclear Fission Chain Reacting System	H. L. Anderson, H. S. Brown
2,990,355	Means for Controlling Reactions	L. W. Nordheim, E. P. Wigner
2,990,356	Control Rod Drive	R. A. Chapellier, I. Rogers
2,990,357	Method and Apparatus for Controlling Neutron Density	E. P. Wigner, G. J. Young
2,990,358	Control Means for Reactor	J. H. Manley
2,990,359	Fuel Element Support	W. L. Wyman
2,990,360	Neutronic Reactor Control Rod and Method of Fabrication	S. W. Porembka, Jr.
2,990,476	Radiation Source	J. D. Gow
2,991,112	Self-Centering Positive Locking Grapnel	C. G. Hopper
2,991,150	Purification of Plutonium Using a Cerium Precipitate as a Carrier for Fission Products	B. F. Faris, C. M. Olson
2,991,192	Process of Coating Graphite with Niobium-Titanium Carbide	F. A. Halden, W. D. Smiley, F. M. Hruz
2,991,236	Separating Liquid Moderator from a Slurry Type Reactor	H. C. Vernon
2,991,237	Thorium Dispersion in Bismuth	J. S. Bryner
2,991,238	Pinched Plasma Reactor	J. A. Phillips, B. R. Suydan, J. L. Tuck
2,991,601	Process of Forming Powdered Material	J. Glatter, B. E. Schaner, T. J. Burke
2,991,905	Gas Seal	H. Monson, E. Hutter
2,991,980	Heat Transfer Means	A. P. Fraas, G. P. Wislicenus
2,992,048	Tool Assembly with Bi-Directional Bearing	G. E. Longhurst
2,992,066	Preparation of Plutonium Trifluoride	L. L. Burger, W. E. Roake
2,992,067	Dissolution of Zirconium and Alloys Thereof	J. L. Swanson
2,992,172	Fuel Elements for Nuclear Reactors	A. Blainey, H. Lloyd
2,992,175	Neutronic Reactor Shielding	L. B. Borst
2,992,178	High Strength Control Rods for Neutronic Reactors	B. Lustman, E. F. Losco, I. Cohen
2,992,179	Fuel Element for Nuclear Reactors	C. H. Bassett
2,992,249	Ion Exchange Adsorption Process for Plutonium Separation	G. E. Boyd, E. R. Russell, M. D. Taylor
2,992,700	Electrostatic Air Cleaning Device and Method	L. Silverman, D. M. Anderson
2,992,886	Method for Dissolving Zirconium-Uranium Compositions	T. A. Gens
2,992,887	Leaching of Uranium Ores Using Alkaline Carbonates and Bicarbonates at Atmospheric Pressure	A. Thunaes, E. A. Brown, A. T. Rabbitts, R. Simrad, H. J. Herbst
2,992,888	Process of Treating or Forming an Insoluble Plutonium Precipitate in the Presence of an Organic Surface Active Agent	J. H. Balthis
2,992,889	Method for Separating Plutonium and Fission Products Employing an Oxide as a Carrier for Fission Products	T. H. Davies
2,992,915	Pyrometallurgical Method	P. A. Nelson
2,992,981	Neutronic Reactor Core	W. B. Thomson, A. Corbin, Jr.
2,992,982	Coupled Fast-Thermal Power Breeder Reactor	R. Avery
2,993,786	Hot Pressing to Form Canned Uranium Slugs	S. B. Roboff, W. E. Kingston
2,993,850	Fast Neutron Reactor	H. Soodak, E. P. Wigner
2,993,851	High Temperature and Neutron Producing System	G. P. Thomson, M. Blackman
2,993,852	Neutronic Reactor	R. F. Christy
2,994,019	Integral Positioning and Indicating Device	C. E. Frantz, W. E. Cawley, R. F. Warnick
2,994,038	Electrical Load anticipator and Recorder	J. B. Russell, R. J. Thomas
2,994,072	Photoelectric Control for Tape Positioning	J. W. Woody, Jr.

2,994,423	Apparatus for Sheathing Rods	G. W. K. Ford, L. M. Wyatt, O. S. Plail
2,994,577	Method of Removing Iodine from Gases and Filter Medium Therefor	L. Silverman
2,994,579	Dissolution of a Cerium-Type Plutonium-Containing Fluoride Carrier	A. C. Wahl
2,994,650	Preparation of Pure Metals from their Compounds	H. L. Slatin
2,994,652	Method for Producing Diboron Tetrachloride	J. W. Frazer, R. T. Holzmann
2,994,656	Fuel Element Construction	L. R. Zumwalt
2,994,657	Chimney for Boiling Water Reactor	M. Petrick
2,994,837	Adjustable Double Pulse Generator	J. W. Gratian, A. C. Gratian
2,994,951	Method of Applying Metallic Coatings	J. W. Robinson, L. D. Eubank
2,995,419	Method for Dissolving Lanthanum Fluoride Carrier for Plutonium	D. E. Koshland, Jr., J. E. Willard
2,995,471	Method for Treating Graphite Product	D. H. Gurinsky
2,995,588	Extraction of Tetravalent Plutonium Values with Methyl Ethyl Ketone, Methyl Isobutyl Ketone Acetophenone or Methone	G. T. Seaborg
2,995,925	Ultrasonic Flaw Detection Method	D. C. Worlton
2,996,330	Remotely Operated Manipulator	E. L. Hutto
2,996,352	Precipitation of Plotonous Peroxide	J. G. Barrick, J. P. Manion
2,996,375	Process of Recovering Alkali Metals	J. Wolkoff
2,996,443	Fissile Material and Fuel Elements for Neutronic Reactors	B. E. Schaner
2,996,444	Fuel Element Construction	M. T. Simnad
2,996,526	Extraction of Tetravalent Plutonium Values from Aqueous Acid Solutions by 2(B-Ethylbutoxy) Ethanol	G. T. Seaborg
2,996,662	Magnetic Densitometer	J. A. McCann, R. H. Jones
2,997,289	Apparatus for the Production of Lithium Metal	P. S. Baker, H. B. Greene
2,997,431	Method of Initiating and Sustaining an Energetic Plasma for Neutron Production	P. R. Bell, R. J. Mackin, Jr., A. Simon
2,997,436	Gas Ionizing and Compressing Device	E. M. Little, D. B. Thomson, V. Josephson, F. R. Scott
2,997,587	Neutronic Reactor Core Instrument	L. S. Mims
2,997,641	Plasma Generator Device	W. R. Baker, O. A. Anderson, H. P. Furth
2,997,744	Method of Graphite Preparation	S. D. Stoddard, W. T. Harper
2,997,883	Acceleration Integrating Means	D. F. Wilkes
2,998,917	Electrical Load Anticipator and Recorder	J. V. Werme
2,999,058	Nuclear Reactor Fuel Element	C. W. Wheelock, R. D. Baumeister
2,999,059	Nuclear Reactor	M. Treshow
2,999,060	Control Means for a Nuclear Reactor	R. J. Teitel
2,999,168	Linear Count-Rate Meter	J. J. Henry
2,999,187	Differential Fault Sensing Circuit	J. H. Roberts
3,000,377	Method and Apparatus for Metabolic Assay	B. M. Tolbert, M. R. Kirk, E. M. Baker
3,000,695	Compounds and Composition Containing Plutonium	G. T. Seaborg
3,000,697	Transuranic Element, Composition Thereof, and Methods for Producing, Separating and Purifying Same	A. C. Wahl
3,000,726	Production of Metals	F. H. Spedding, H. A. Wilhelm, W. H. Keller
3,001,144	Direct Coupled Amplifier for Small Currents	R. A. Dandl
3,001,238	Method of Making Metal Bonded Carbon Bodies	W. V. Goeddel, M. T. Simnad
3,001,847	Optical Transcribing Oscilloscope	Q. A. Kerns
3,002,095	Single-Crystal Neutron Spectrometer	D. L. Holcomb
3,002,852	Method of Forming Tantalum Silicides on Tantalum Surfaces	M. G. Bowman, H. Krikorian
3,002,910	Catalytic Conversion of Organic Compounds Using Penetrating Radiation	J. M. Caffrey, Jr.

3,002,911	Radiolysis of Organic Compounds	J. W. Sutherland, A. O. Allen
3,002,912	Reactors	L. Spitzer, Jr.
3,003,002	Purification of Ether	R. N. Feinstein
3,003,050	Welding Torch	T. B. Correy
3,003,080	Apparatus for Minimizing Energy Losses from Magnetically Confined Volumes of Hot Plasma	R. F. Post
3,004,628	Rectified Absorption Method for the Separation of Hydrogen Isotopes	C. d'A Hunt, D. M. Hanson
3,005,079	Method and Apparatus for Effecting Thermal Bonds	H. O. Monson, R. A. Jaress
3,005,158	Core Saturation Blocking Oscillator	R. J. Spinrad
3,005,334	Apparatus for Non-Destructive Inseption of Cantilevered Members	E. R. Taylor, C. H. Mahoney, C. R. Lay
3,005,680	Method of Separating Neptunium from Plutonium in Aqueous Inorganic Solution	G. T. Seaborg
3,005,681	Process for Separating Plutonium (IV) Values from Uranium and Fission Product Values, e.g. Zirconium and Columbium, Utilizing a Lanthanum Oxalate Carrier Precipitate	R. W. Stoughton
3,005,682	Method of Dissolving Plutonium Dioxide in Nitric Acid Using Cerium Ions	A. S. Wilson
3,005,683	Separation of Technetium from Aqueous Solutions by Coprecipitation with Magnetite	S. J. Rimshaw
3,005,760	Method of Opposing Irradiation-Induced Viscosity Increase in Employment of Organic Fluids	R. O. Bolt
3,005,764	Neutronic Reactor Structure	F. Daniels
3,005,765	Density Control in a Reactor	J. Marshall, Jr.
3,005,767	Rotating Plasma Device	K. Boyer, J. E. Hammel, C. L. Longmire, D. E. Nagle, P. L. Ribe, J. L. Tuck
3,005,794	Method of Using and Manufacturing Plastic Equivalent to Organic Materials	F. R. Shonka, J. E. Rose, G. Failla
3,005,931	Ion Gun	R. A. Dandl
3,005,950	Precision Integrator for Minute Electric Currents	A. Hemmendinger, P. J. Holmer
3,005,954	Apparatus for Control of High Energy Accelerators	H. G. Heard
3,006,835	Neutron Source Using Magnetic Compression of Plasma	W. E. Quinn, E. M. Little, K. Boyer, J. L. Tuck, W. C. Elmore
3,006,859	Processing of Radioactive Waste	B. T. Allemann, B. M. Johnson, Jr.
3,008,884	Process for Making Neutron Absorbing Bodies	G. H. Schippereit, R. H. Lang
3,008,904	Processing of Radioactive Waste	B. M. Johnson, Jr., C. B. Barton
3,009,062	Absorption Analyzer	W. A. Brookshank, Jr., J. E. Strain, H. M. Rendon, Jr.
3,009,242	Zirconium-Cladding of Thorium	R. J. Beaver
3,009,767	Separation of Transuranic Elements from Rare Earth Compounds	T. P. Kohman
3,009,768	Continuous Process for Preparing Uranium Hexafluoride from Uranium Tetrafluoride and Oxygen	J. B. Adams, J. C. Bresee, L. H. Ferris, C. D. Scott
3,009,807	Yttrium Decontamination	D. H. Dennison
3,009,866	Neutronic Reactor	A. P. Fraas, C. H. Mills
3,009,869	Fuel Element for Nuclear Reactors	C. H. Bassett
3,009,881	Method of Stabilizing Polyphenyl Coolants	J. G. Burr, J. D. Strong
3,010,021	Method for Measuring Radiation	W. C. Roesch, R. C. McCall
3,010,889	Fuel Element	P. Fortescue, L. R. Zumwalt
3,011,054	Method and Apparatus for the Detection of Leaks in Pipe Lines	S. Jefferson, J. P. Cameron
3,011,865	Separation of Uranium and Plutonium Oxides	G. E. Benedict, W. L. Lyon
3,011,923	Surface Treatment of Molybdenum Metal	C. O. Coffer
3,011,962	Nuclear Reactors	L. J. Koch, E. E. Rice, Jr., M. Novick, A. A. Denst, A. J. Higers

3,012,139	Automatic Mass Spectrometer	H. L. Hanson, C. D. Tabor, Jr.
3,012,210	Directional Couplers	D. J. Higg
3,012,811	Gripping Tool	R. J. Sandrock
3,012,848	Method for Sensing Degrees of Fluidization in Fluidized Bed	R. P. Levey, Jr., A. H. Fowler
3,012,849	Dissolution of Zirconium-Containing Fuel Elements	F. L. Horn
3,012,955	High Temperatures Reactor	R. M. Kulsrud, L. Spitzer, Jr.
3,012,956	Radiation Facility for Nuclear Reactors	E. L. Currier, Jr., J. H. Nicklas
3,013,859	Separation of Scandium Values from Iron Values by Solvent Extraction	C. W. Kuhlman, Jr. G. Lang
3,013,909	Method of Chemical Decontamination of Stainless Steel Nuclear Facilities	G. P. Panker, J. L. Zegger
3,013,953	Process for Separating Azeo-tropic Mixtures by Extractive and Convective Distillation	J. W. Fraser
3,013,978	Removal of Fission Products from Water	J. Rosinski
3,014,154	Ion Rocket Engine	K. W. Ehlers, P. Voelker
3,014,857	Plasma Device	J. D. Gow, J. M. Wilcox
3,015,031	Personal Radiation Monitor	D. H. Dilworth, C. J. Borkowski
3,015,618	Apparatus for Heating a Plasma	T. H. Stix
3,015,748	Pyratron with Translational Closure Fields	E. C. Hartwig, D. B. Cummings, R. F. Post
3,016,341	Reactor	L. Spitzer, Jr.
3,016,342	Controlled Nuclear Fusion Reactor	S. A. Colgate, M. Kruskal M. Rosenbluth, J. L. Tuck
3,016,458	Resonator Particle Separator	J. P. Blewett
3,016,459	Mass Spectrometry	L. Friedman
3,016,475	Phase Differential Indicating Circuit	F. A. Kirsten
3,017,242	Removal of Cesium by Sorption from Aqueous Solutions	L. L. Ames
3,017,286	Method for Coating Graphite with Niobium Carbide	J. S. Kane, J. H. Carpenter, O. H. Krikorian
3,018,159	Method of Removing Radioactive Iodine from Gases	L. Silverman
3,018,169	Method of Making Delta Zirconium Hydride Monolithic Moderator Pieces	J. B. Vetrano
3,018,238	Method of Forming a Fuel Element for a Nuclear Reactor	E. H. Layer, Jr., C. S. Peet
3,018,239	Experimental Liquid Metal Fuel Reactor	J. J. Happell, G. H. Thomas, R. F. Demise, J. L. Bunts, Jr.
3,018,240	Spring Driven Actuating Mechanism for Nuclear Reactor Control	F. Bevilacqua, D. F. Uecker, E. F. Groh
3,018,253	Process for Producing Alkyl Arthophosphoric Acid Extractants	R. R. Grinstead
3,018,386	Amplitude Discriminator Having Separate Triggering and Recovery Controls Utilizing Automatic Triggering Control Disabling Clamp	R. L. Chase
3,018,460	Connector	D. J. Stevens
3,018,980	Vehicle for Slave Robot	R. C. Goertz, J. F. Lindberg
3,020,161	Process for Removal of Radionuclides from Milk	G. K. Murthy, J. E. Campbell, Jr., E. B. Masurovsky, L. F. Edmondson
3,020,632	Method of Joining Carbides to Base Metals	N. H. Krikorian, J. D. Farr, W. G. Whitterman
3,020,647	Glove Box Attachment	H. L. Butts
3,020,736	Flexible Coupling	E. F. Babeley
3,020,750	Digital Q Meter	W. L. Briscoe
3,021,272	Plasma Heating and Confining Device	W. R. Baker, A. Bratenahl, A. B. Kunkel
3,021,708	Flowmeter	G. S. November, F. Schute
3,022,134	Separation of Curium and Americium	F. R. Fields, H. M. Isaac
3,022,160	Reconditioning Fuel Elements	H. L. Brandt
3,022,162	Brazing Alloys	R. G. Donnelly, R. G. Cilliland, G. M. Slaughter
3,022,236	Radio Frequency Plasma Containing Device	A. J. Ulrich, J. W. Butler, A. J. Hatch

3,022,240	Nuclear Reactor Fuel Element	C. H. Bassett
3,022,933	Multiple Electron Beam Ion Pump and Source	R. E. Ellis
3,023,040	Coupler for Tool and Cable	W. E. Cawley, C. E. Frantz
3,023,078	Production of Uranium Tetrafluoride	R. J. Allen, H. C. Petrow
3,023,085	Method of Combining Hydrogen and Oxygen	J. P. McBride
3,023,097	Reprocessing Uranium Dioxide Fuels	L. Burris, Jr., A. Schneider
3,023,119	Coated Mold for Casting Plutonium	J. W. Anderson, F. Miley, W. C. Pritchard
3,024,009	Condensation Can	E. T. Booth, B. A. Jacobsohn, R. B. Pontius, C. B. Slade
3,024,172	Electrolytic Separation Process and Apparatus	M. E. McLain, M. W. Roberts
3,024,181	Fuel Element	R. C. Howard, J. E. Bokros
3,024,182	Plasma Energization	H. P. Furth, E. S. Chambers
3,024,965	Apparatus for Vacuum Deposition of Metals	N. Milleran
3,025,143	Separation Apparatus	J. B. Huff
3,025,162	Dimension Stabilized Fixed Photographic Type Emulsion and a Method for Producing Same	F. C. Gilbert
3,025,371	Shockproof Magnetic Reed Switch	E. Madal
3,025,429	Ion Magnetron	J. D. Gow, R. W. Layman
3,025,442	Switching Transmitter Positioning of Synchros	H. Wolff
3,027,143	Apparatus for Improving Hydrodynamic Conditions Within a Conduit	W. T. Furgerson, C. Samuels, Jr.
3,027,391	Metal Phthalocyanines	H. A. Frigerio
3,028,256	Method for Forming a Coating of Molybdenum Carbide on a Carbon Body	M. T. Simnad
3,028,329	Nuclear Reactor Fuel Element with Improved heat Transfer Characteristics	J. E. Mahlmeister
3,028,517	Neutron Detector	T. H. Ryan
3,029,130	Plutonium Recovery from Neutron-Bombarded Uranium Fuel	R. H. Moore
3,029,142	Reactor Fuel Scavenging Means	A. S. Coffinberry
3,029,184	Process for Controlling Animal Growth Rate	W. J. Visek
3,029,197	Boiling Reactors	S. Untermyer
3,029,198	Nuclear Reactor Fuel Element	W. F. Anderson, T. T. Shimazaki, D. R. Tollefson, A. M. Stelle
3,029,199	Plasma Device	W. R. Baker, A. Bratenahl, H. P. Furth
3,029,200	Removal of Radioactive Ions from Waters	W. B. Silker
3,027,796	Sodium-Water Heat Exchange	W. R. Simmons, L. J. Koch
3,029,842	Valve	A. M. Arkelyan, C. L. Rickard
3,030,175	Preparation of High Purity UF_4	J. E. Magner, R. S. Long, D. A. Ellis, R. R. Grinstead
3,030,176	Uranium Separation Process	W. L. Lyon
3,030,294	Neutronic Reactor Control Element	R. J. Beaver, C. F. Leitten, Jr.
3,030,510	Method and Apparatus for Measuring Radiation	S. D. Reader
3,030,543	Method and Apparatus for Trapping Ions in a Magnetic Field	J. S. Luce
3,030,547	High Voltage, High Current Spark Gap Switch	R. S. Dike, D. W. Lier, A. E. Schofield, J. L. Tuck
3,031,174	Fluid Purifier and Sealing Valve	W. F. Swanton
3,031,261	Uranium Recovery from Nuclear Fuel	R. C. Vogel, W. A. Rodger
3,031,294	Aluminum Production Method	A. W. Searey, D. J. Maschi
3,031,304	Fine Grain Nuclear Emulsion	A. J. Oliver
3,031,342	Graphite Impregnation Method	F. Kertesz, H. J. Buttram
3,031,385	Method and Apparatus for Determining Amalgam Decomposition Rate	R. W. Johnson, C. C. Wright
3,031,389	Method of Making Fuel Bodies	W. V. Goeddel, M. T. Simnad

3,031,393	Coupled Diaphragm Nuclear Reactor Safety Device	A. J. Saur, W. K. McCarty, Jr. L. E. Johnson
3,031,394	Biological Irradiation Facility	W. H. McCorkle, H. S. Cern
3,031,396	Stabilized Pinch Machine	O. A. Anderson
3,031,397	Reactor Control	P. Fortescue, D. Nicoll
3,031,398	High Energy Gaseous Plasma Containment Device	J. L. Tuck
3,031,608	Voltage Regulator	R. L. Von Eschen, P. F. Scheele
3,031,846	Hydraulic Servo	D. E. Wiegand
3,032,356	Explosive Means to Separate Casing Members	N. B. Botsford
3,032,490	Destruction of Neutral Particles in a Device for Producing a High Density Plasma	A. Simon
3,032,492	Fuel Element for Neutronic Reactors	J. T. Stacy, H. A. Saller (Deceased), S. W. Parembka, Jr.
3,032,497	Method of Removing Strontium Ions	D. W. Rhodes, J. R. McHenry, L. L. Ames, Jr.
3,033,229	High Pressure Regulator	R. W. Ramage
3,033,549	Water Cooled Retort Cover	W. J. Ash, J. P. Pozzi
3,033,645	Precipitation of Plutonous Peroxide	B. F. Faris
3,033,753	Erythropoietic Factor	W. F. White, R. J. Schluster
3,033,771	Method for the Preparation of Binary Nitrogen-Fluorine Compounds	J. W. Frazer
3,033,773	Solid Gas Suspension Nuclear Fuel Assembly	D. C. Schluderberg, J. W. Ryon
3,033,774	Control System for Neutronic Reactors	F. E. Crever
3,034,088	Cable Connector	J. M. Caller
3,034,689	Discharge Valve for Grannular Material	L. D. Stoughton, S. T. Robinson
3,034,814	Coupling	E. Frisch, C. G. Johnson
3,034,854	Separation of Californium from Curium Solvent Extraction	D. F. Peppard, G. W. Mason
3,034,868	Continuous Treatment Apparatus	E. E. Erickson
3,034,889	Decontamination of Uranium	F. H. Spedding, T. A. Butler
3,034,977	Nuclear Superheater for Boiling Water Reactor	R. J. Holl, R. W. Klecker, C. B. Graham
3,034,978	Reactor Having NaK-UO_2 Slurry Helically Positioned in a Graphite Moderator	M. B. Rodin, J. C. Carter
3,035,894	Method of Preparing Uranium Pentafluoride	W. E. Hobbs
3,035,895	Preparation of High-Density, Compactible Thorium Oxide Particles	K. H. McCorkle, A. T. Kleinsteuber, C. E. Schulling, O. C. Dean
3,035,993	Reflector Control of a Boiling Water Reactor	M. Treshow
3,035,996	Tripping Circuit	G. W. Lees, E. D. McCormick
3,036,172	Fast Acting Current Switch	T. H. Batzer, J. F. Ryan, D. B. Cummings
3,036,811	Ultra High Vacuum Valve	W. A. Fry
3,036,881	Catalyzed Oxidation of Uranium in Carbonate Solutions	W. E. Clifford
3,036,963	Method and Apparatus for Injecting and Trapping Electrons in a Magnetic Field	H. C. Christofilos
3,037,685	Method for Pumping Gases at Low Vacuum Pressures	M. Milleron
3,037,796	Threaded Adaptor for Lugged Pipe Ends	J. E. Robb
3,037,839	Preparation of UO_2 for Nuclear Reactor Fuel Pellets	J. M. Googin
3,037,840	Method for Preparation of Spherical UO_4	J. F. Gregory, Jr. R. F. Levey, Jr.
3,037,921	Method and Apparatus for Producing Neutrons and Other Radiations	J. L. Tuck
3,037,922	Heat Transfer and Tritium Producing System	E. F. Johnson
3,037,924	Jacketed Body	E. C. Creutz
3,038,099	Cusp-Pinch Device	W. R. Baker, J. P. H. Watteau
3,038,249	Zirconium-Titanium-Beryllium Brazing Alloy	R. G. Gilliland, P. Patriarca, G. M. Slaughter, L. C. Williams

3,038,731	Vacuum Sealing Means for Low Vacuum Pressures	N. Milleron
3,038,844	Separations by Electrodialysis	W. H. Webb, J. D. Vie
3,038,997	Area Radiation Monitor	F. W. Manning, S. E. Groothuis, J. H. Lykins, J. R. Mahoney & D. M. Papke
3,039,014	Superfast Thermalization of Plasma	C. C. Chang
3,039,032	Error Compensator for a Position Transducer	A. H. Fowler
3,039,846	Method for the Recovery and Purification of Gaseous UF_6 from Gaseous Mixtures and UF_5NO and UF_7NO_2 Products Produced Thereby	P. R. Ogle, Jr.
3,039,847	Separation of Metal Values from Nuclear Reactor Poisons	D. O. Campbell G. I. Cathers
3,039,944	Fuel Element	L. R. Zumwalt
3,039,948	Nuclear Reactor with Powdered Fuel	D. Krucoff
3,040,660	Electric Initiator with Exploding Bridge Wire	L. H. Johnston
3,041,136	Flame Denitration and Reduction of Uranium Nitrate to Uranium Dioxide	W. H. Hedley, R. J. Roehrs & C. M. Henderson
3,041,260	Nuclear Fuel Material	W. B. Goeddel
3,041,263	Molten Plutonium Fueled Fast Breeder Reactor	R. M. Kiehn, R. E. Peterson, L. D. P. King, E. O. Swickard, Jr.
3,041,266	Fluorine Cell Anode Assembly	R. E. Cable, W. B. Goode, Jr., W. K. Henderson, G. H. Montillon
3,041,287	Heavy Metal Loaded Plastic Scintillating Compositions	M. Hyman, Jr.
3,042,594	Vibration Compaction	J. J. Hauth
3,043,653	Recovery of Uranium from Zirconium-Uranium Nuclear Fuels	T. A. Gens
3,043,727	Plutonium Alloys Containing Controlled Amounts of Plutonium Allotropes Obtained by Application of High Pressures	R. O. Elliott K. A. Gschneidner, Jr.
3,044,847	Self-Moderating Fertile Compounds	D. T. Peterson, J. Rexer
3,044,944	Methods of Preparation of Element 95	G. T. Seaborg, R. A. James
3,044,945	Sheet Plasma Device	O. A. Anderson
3,044,946	High Density Nuclear Fuel Composition	F. B. Litton
3,044,947	Apparatus for Loading and Unloading a Machine	J. H. Payne
3,045,108	Fuel Container Closure	C. C. Stone, R. A. Noland
3,045,528	Dark-Field Illumination System	D. U. Norgran
3,046,087	Solvent Extraction Process for Separating Uranium and Plutonium from Aqueous Acidic Solutions of Neutron Irradiated Uranium	F. R. Bruce
3,046,088	Protactinium Extraction	F. L. Horn
3,046,089	Process of Treating Uranium Hexafluoride and Plutonium Hexafluoride Mixtures with Sulfur Tetrafluoride to Separate Same	M. J. Steindler
3,046,090	Production of Uranium Monocarbide	R. M. Powers
3,046,212	Nuclear Reactor	C. R. Anderson
3,046,402	Multiple Thickness Times Density Gamma Gauge	N. H. Cherry
3,046,650	Braze Bonding of Columbium	R. L. Heestand, M. L. Picklesimer
3,047,360	Process for Extracting Neptunium and Plutonium from Nitric Acid Solutions of Same Containing Uranyl Nitrate with a Tertiary Amine	J. C. Sheppard
3,047,480	Plasma Device Utilizing Self-Trapping of Plasma Current and Magnetic Field	R. H. Lovberg L. C. Burkhardt
3,047,484	Iron Base Alloys and Articles Made Therefrom	J. T. Stacy H. A. Saller (deceased)
3,047,601	Separation of Thorium from Rare Earth Values in Aqueous Acidic Solution by Solvent Extraction with an Alkyl Phosphate-Oxygen Containing Organic Diluent	O. Johnson
*2,920,235	Method and Apparatus for Producing Intense Energetic Gas Discharge	P. R. Bell, J. S. Luce

PATENTS WHICH HAVE ISSUED TO THE COMMISSION AND WHICH ARE AVAILABLE TO THE PUBLIC FOR LICENSING IN ACCORDANCE WITH THE LICENSING POLICY OF THE COMMISSION

3,036,674	COMPRESSION SEAL AND SEALING MATERIAL THEREFOR	T. G. Branin, Lancaster, Pa.
3,043,323	BAKABLE ULTRA-HIGH VACUUM VALVE	J. T. Mark and I. H. Gantz, Lancaster, Pa.
3,048,474	CATALYTIC RECOMBINATION OF RADIOLYTIC GASES IN THORIUM OXIDE SLURRIES	L. E. Morse, Oak Ridge, Tenn.
3,048,532	CRUCIFORM CONTROL ROD JOINT	A. G. Thorp, II Pittsburgh, Pa.
3,048,533	NEUTRONIC REACTOR MANIPULATING DEVICE	L. A. Ohlinger, Los Angeles, Calif.
3,048,534	CONTROL MEANS FOR NEUTRONIC REACTOR	L. Tonks, Schenectady, N.Y.
3,049,400	SOLVENT EXTRACTION PROCESS FOR THE SEPARATION OF URANIUM AND THORIUM FROM PROLACTINIUM AND FISSION PRODUCTS	R. H. Rainey, Knoxville, Tenn. and J. G. Moore, Clinton, Tenn.
3,049,401	PROCESS FOR DISSOLVING BINARY URANIUM-ZIRCONIUM OR ZIRCONIUM-BASE ALLOYS	A. A. Jonke, Elmhurst, Ill., J. J. Barghusen, Joliet, Ill. and H. M. Levitz, Bellwood, Ill.
3,049,402	SOLVENT EXTRACTION FOR SEPARATING ACTINIDE AND LANTHANIDE METAL VALUES	R. A. Hilldebrandt, Bellwood, Ill., H. H. Hyman, Chicago, Ill. and S. Vogler, Chicago, Ill.
3,049,423	METHOD FOR OBTAINING PLUTONIUM METAL FROM ITS TRICHLORIDE	J. G. Reavis, J. A. Leary and W. J. Maraman, Los Alamos, N. Mex.
3,049,480	METHOD OF OPERATING A HEAVY WATER MODERATED REACTOR	H. C. Vernon, Oak Ridge, Tenn.
3,049,481	NON-CORROSIVE REACTOR FUEL SYSTEM	C. C. Herrick, Los Alamos, N. Mex.
3,049,483	NEUTRONIC REACTORS AND CONTROL MEANS THEREFOR	K. A. Kesselring Schenectady, N.Y.
3,049,485	SUPPORT STRUCTURE	J. Tatlock, Culcheti near Warrington, England J. A. F. Glass Woolton, Liverpool, Eng.
3,049,486	NUCLEAR REACTOR FUEL-BREEDER FUEL ELEMENT	E. L. Currier, Silver Spring, Md. J. H. Nicklas, Riverdale, Md.
3,049,487	DIRECT-CYCLE-BOILING-WATER NUCLEAR REACTOR	J. M. Harrer, Elmhurst Ill. L. W. Fromm, Glen Ellyn, Ill. V. M. Kolba Plainfield, Ill.
3,049,628	DIRECT COUPLED PROGRESSIVE STAGE PULSE COUNTER APPARATUS	W. M. Kaufman, Monroeville, Pa.
3,049,690	QUICK DISCONNECT ELECTRICAL CONNECTOR	F. J. Sparber, Belen, N. Mex.
3,050,236	RENEWABLE LIQUID GETTERING PUMP	T. H. Batzer, Livermore, Calif.
3,052,142	APPARATUS FOR SHEARING TUBULAR JACKETS	J. P. Simon, Glen Elly, Ill.
3,052,361	LIQUID CYCLONE CONTRACTOR	M. E. Whatley, Oak Ridge, Tenn. and W. H. Woods, Oak Ridge, Tenn.
3,052,513	STRIPPING OF URANIUM FROM ORGANIC EXTRACTANTS	D. J. Crouse, Oak Ridge, Tenn.
3,052,514	PROCESS FOR RECOVERING URANIUM FROM AQUEOUS PHOSPHORIC ACID LIQUORS	J. M. Schmitt, Oak Ridge, Tenn.
3,052,532	CASTING SLIPS FOR FABRICATION OF REFRACTORY METAL WARE	S. D. Stoddard, Los Alamos, N. Mex., D. E. Huckolls, Los Alamos, N. Mex., and R. E. Cowan, Los Alamos, N. Mex.
3,052,536	PREPARATION OF ACTINIDE-ALUMINUM ALLOYS	R. H. Moore Kennewick, Wash.
3,052,537	PREPARATION OF URANIUM-ALUMINUM ALLOYS	R. H. Moore Kennewick, Wash.

3,052,611	METHOD OF PRODUCING URANIUM METAL BY ELECTROLYSIS	R. D. Piper, Des Peres, Mo.
3,052,613	METHOD AND APPARATUS FOR CONDUCTING A NUCLEAR CHAIN REACTION	E. P. Wigner, Chicago, Ill., L. A. Ohlinger, Chicago, Ill., and Galo J. Young, Chicago Ill.
3,052,614	FREQUENCY CONTROL OF RF HEATING OF GASEOUS PLASMA	E. W. Herold, Atherton, Calif.
3,052,615	NUCLEAR FLASH STEAM GENERATOR	F. L. Johns, F. C. Gronemeyer, and M. R. Dusbabek, Los Angeles, Calif.
3,052,616	REACTOR CONTROL DEVICE	R. H. Graham, Los Altos, Calif.
3,052,617	STELLARATOR INJECTOR	R. F. Post, Walnut Creek, Calif.
3,052,637	GLASS COMPOSITION AND PROCESS OF MAKING	A. M. Bishay, Chicago, Ill.
3,052,801	ELECTRICAL PULSE COUNTER APPARATUS	W. H. Kaufman Monroeville, Pa. T. A. Jeeves, Penn Hills Township, Pa.
3,054,147	METHOD FOR SOLVENT-ISOSTATIC PRESSING	P. B. Archibald Pleasanton, Calif.
3,054,201	IDENTIFICATION BADGE DETACHABLE CLIP	M. T. Burns, Chicago, Ill.
3,054,896	APPARATUS FOR ELECTRON BEAM HEATING CONTROL	W. H. Jones, West Chester, Ohio and J. B. Reece, Glendale, Ohio
3,054,926	ELECTRON DISCHARGE DEVICE	M. H. Graham, Houston, Texas
3,054,989	DIODE STEERED MAGNETIC-CORE MEMORY	A. S. Helmed, Flushing, N.Y., R. Laupheimer, Westbury, N.Y., and R. T. Shevlin, Flushing, N.Y.
3,055,631	ELECTROSTRICTION VALVE	D. O. Kippenhan, Castro Valley, Calif.
3,056,023	MASS SEPARATION OF HIGH ENERGY PARTICLES	L. Marshall, Bellport, N.Y.
3,056,028	NEUTRON SHIELDING STRUCTURE	J. T. Mattingly, Danville, Calif.
3,056,071	ELECTRICAL OIL STRUCTURE	W. R. Baker, Orinda, Calif. and A. Hartwig, Richmond, Calif.
3,057,717	PROCESS OF URANIUM METAL CONTAINING FUEL ELEMENTS	R. H. Moore, Kennewick, Wash.
3,059,303	GRIPPER DEVICE FOR TOPES	H. J. Ballarts, Richland, Wash.
3,059,688	MULTIPLE SHAFT TOOL HEAD	H. P. Colbert, Paducah, Ky.
3,059,908	HEAT EXCHANGER	T. H. Fox, T. Richey, and G. R. Winders, Lynchburg, Va.
3,060,108	NON-CORROSIVE PLUTONIUM FUEL SYSTEMS	A. S. Coffinberry and J. T. Weber, Los Alamos, N. Mex.
3,060,111	NUCLEAR REACTOR	J. Sherman, Pittsburgh, Pa., J. E. Sharbaugh, West Mifflin, Pa., W. L. Fauth, Canonsburg, Pa., H. J. Palladino, Centre County, Pa., and P. G. De Huff, Bethel Park, Pa.
3,061,533	CONTROL MEANS FOR A BOILING WATER NUCLEAR REACTOR POWER SYSTEM	R. H. Shannon, W. Chester, Pa. and H. E. Williamson, San Jose, Calif.
3,063,005	TRANSFORMER APPARATUS	J. Nicol, Westford, Mass. W. Franzen, Wayland, Mass.
3,063,290	SYSTEM FOR ULTRASONIC INSPECTION OF TUBULAR OBJECTS	J. A. Kaserman, Knoxville, Tenn. and R. B. Oliver, Kingston, Tenn.
3,063,792	CONTINUOUS PRECIPITATION METHOD FOR CONVERSION OF URANYL NITRATE TO URANIUM TETRAFLUORIDE	G. M. Reinhart, Hamilton, Ohio, and T. J. Collopy, Cincinnati, Ohio
3,063,794	PREPARATION OF REFRACTORY OXIDE CRYSTALS	W. R. Grimes, Kingston, Tenn., J. H. Shaffer and G. M. Watson, Oak Ridge Tenn.

3,063,829	METHOD FOR OBTAINING PLUTONIUM METAL AND ALLOYS OF PLUTONIUM FROM PLUTONIUM TRICHLORIDE	J. G. Reavis, J. A. Leary and W. J. Maraman, Los Alamos, N. Mex.
3,063,830	SEPARATION OF URANIUM PLUTONIUM AND FISSION PRODUCTS FROM NEUTRON-BOMBARDED URANIUM	A. E. Martin, Downers Grove, Ill., I. Johnson, Clarendon Hills, Ill., L. Burris, Naperville, Ill., I. O. Winsch, Downers Grove, Ill., and H. M. Feder, Park Forest, Ill.
3,063,923	FUSED REACTOR FUELS	S. W. Mayer, Canoga Park, Calif.
3,065,044	RECOVERY OF ALUMINUM FROM FISSION PRODUCTS	R. E. Blanco and I. R. Higgins, Oak Ridge, Tenn.
3,065,537	METHOD OF BRAZING	P. Patriarca, Knoxville, Tenn., and G. M. Slaughter, Oak Ridge, Tenn.
3,065,864	REMOTE CONTROL MANIPULATOR	R. T. Coffman, Richland, Wash.
3,066,763	INVERTED CONTROL ROD LOCK-IN DEVICE	W. G. Brussalis and G. E. Bost, Pittsburgh, Pa.
3,067,116	PROTECTED NUCLEAR FUEL ELEMENT	J. Kittel, Naperville, Ill. and J. F. Schumar, San Diego, Calif.
3,067,117	METHOD OF PREPARING A FUEL ELEMENT FOR A NUCLEAR REACTOR	J. J. Hauth and R. J. Anicetti, Richland, Wash.
3,067,133	WATER TREATMENT	R. W. Pitman and W. R. Conley, Richland, Wash.
3,067,339	FLOW GATING	W. J. Poppelbaum Champaign, Ill.
3,067,344	PULSE STRETCHER EMPLOYING CAPACITOR CHARGED THROUGH INTEGRATING CIRCUIT AND DISCHARGED BY DELAYED TRANSISTOR CLAMP	D. R. Branum and W. F. Cummins, Livermore, Calif.
3,067,365	GUIDE FOR POLARIZED NEUTRONS	V. L. Sailor, East Patchogue, N.Y. and R. W. Aichroth, Islip, N.Y.
3,068,093	METHOD OF PURIFYING THORIUM	A. J. Darnell, Altadena, Calif., W. A. McCollum, N. Hollywood, Calif. and C. J. Meechan, Reseda, Calif.
3,068,159	PROCESS FOR COOLING A NUCLEAR REACTOR	L. B. Borst, Oak Ridge, Tenn.
3,068,160	MECHANICALLY-JOINED PLATE-TYPE ALUMINUM-CLAD FUEL ELEMENT	J. H. Erwin, Concord, Tenn.
3,068,161	METHOD AND APPARATUS FOR CONTROL OF A NUCLEAR REACTOR	W. E. Cawley, Richland, Wash.
3,068,163	METHOD AND MEANS FOR SUPPORTING REACTOR FUEL CONTAINERS IN AN ASSEMBLY	E. L. Curries, Silver Spring, Md., J. H. Nicklas, Hyattsville, Md., and C. A. Coombs, Wash. D. C.
3,068,352	METHOD OF OBTAINING AN IMPROVED WELD IN INERT ARC WELDING	T. B. Correy, Richland, Wash.
3,069,228	METHOD OF DEHYDRATING URANIUM TETRAFLUORIDE	J. O. Davis, C. C. Fogel and W. E. Palmer, Harrison, Ohio
3,069,337	IRRADIATION METHOD AND APPARATUS	C. P. Cabell, Richland, Wash.
3,069,338	FUEL ELEMENT FOR NEUTRONIC REACTORS	B. E. Schaner, Bethel, Pa. and R. A. Wolfe, West Mifflin, Pa.
3,069,341	NEUTRONIC REACTORS	F. Daniels, Madison, Wis.
3,069,344	APPARATUS FOR THE DENSIFICATION AND ENERGIZATION OF CHARGED PARTICLES	R. F. Post, Walnut Creek, Calif. and F. H. Coensgen, Pleasanton, Calif.
3,069,628	PULSE RATE DIVIDER	H. C. McDonald, Livermore, Calif.
3,069,654	METHOD AND MEANS FOR RECOGNIZING COMPLEX PATTERNS	P. V. C. Hough, Ann Arbor, Mich.
3,069,854	METHOD OF MAKING TUNGSTEN FILAMENTS	J. W. Frazer, Livermore, Calif.
3,070,420	METHOD OF MAKING SPHERICAL ACTINIDE CARBIDE	G. D. White, Joliet, Ill. and D. C. O'Rourke, Worth, Ill.
3,070527	COMPOSITE FUEL ELEMENT	W. J. Hurford, Mt. Lebanon, Pa., R. B. Gordon, Los Angeles, Calif. and W. A. Johnson, Pepper Pike Village, Ohio
3,070,529	NEUTRONIC REACTOR	E. P. Wigner, Princeton N. J.

3,070,530	NEUTRONIC REACTOR POWER PLANT	H. E. Metcalfe, Los Angeles County, Calif.
3,070,537	FUEL SUBASSEMBLY CONSTRUCTION FOR RADIAL FLOW IN A NUCLEAR REACTOR	M. Treshow, Del Mar, Calif.
3,070,538	FUEL ASSAY REACTOR	B. I. Spinrad, Naperville, Ill., H. A. Sandmeier, Chicago, Ill., and F. H. Martens, Plainfield, Ill.
3,071,459	PRODUCTION OF HAFNIUM METAL	G. W. Elger, Albany, Oreg., and R. W. Boubel, Cincinnati, Ohio
3,071,527	NUCLEAR REACTOR	G. Young, Hawthorne, N.Y.
3,071,628	REFINING FLUORINATED COMPOUNDS	A. L. Linch, Wilmington, Del.
3,071,734	COAXIAL FILAMENT TRANSFORMERS FOR PULSE CIRCUITS	D. O. Kippenhan, Castro Valley, Calif.
3,072,475	METHOD OF MAKING ALLOYS OF SECOND RARE EARTH SERIES METALS	R. D. Baker, Los Alamos, N. Mex. and B. R. Hayward, Whittier, Calif.
3,072,550	REACTOR SYSTEM AND CONTROL VALVE	P. Fortescue, LaJolla, Calif., C. Rickard, Solana Beach, Calif. and D. Rose, San Diego, Calif.
3,072,552	FUEL ELEMENT INTERLOCKING ARRANGEMENT	P. Fortescue and D. Nicoll LaJolla, Calif.
3,072,553	NUCLEAR REACTOR	C. Starr, Pacific Palisades, Calif.
3,072,786	BEAM SPLITTER	W. B. Jones, Berkeley, Calif. and P. F. McWalters, Oakland, Calif.
3,072,851	PULSE AMPLIFIER FOR ALTERING THE SHAPE OF UNDERSHOOTS	E. Fairstein and R. A. Dandl Oak Ridge, Tenn.
3,073,698	DISPERSION HARDENING OF URANIUM METAL	W. Arbiter, Yonkers, N.Y.
3,073,717	COATED CARBON ELEMENT FOR USE IN NUCLEAR REACTORS AND THE PROCESS OF MAKING THE ELEMENT	R. J. Pyle, San Diego, Calif. and G. L. Allen, Pacific Beach, Calif.
3,073,767	REACTOR FUEL ELEMENTS TESTING CONTAINER	G. K. Whitham and R. R. Smith Idaho Falls, Idaho
3,073,768	NEUTRON SOURCE	J. L. Richmond, Miamisburg, Ohio and C. E. Wells, Farmersville, Ohio
3,073,961	SHIPPING CONTAINERS FOR RADIOACTIVE MATERIAL	H. D. Nachber, Burnt Hills, N.Y., B. B. Biggs, P. J. Tarlullo, and K. O. George, Schenectady, N.Y.
3,074,153	DUCTILE CHROMIUM	S. J. Paprocki and G. W. Cunningham, Columbus, Ohio
3,074,375	EXPERIMENTAL ANIMAL MAINTENANCE	M. P. Finkel, Chicago, Ill.
3,074,776	GASEOUS DISPOSAL PROCESS	R. F. Ryan, Lynchburg, Va. F. R. Thomasson, Madison Heights, Bedford, Va. J. H. Hicks, Bedford, Va.
3,074,868	METHOD OF OPERATING A NEUTRONIC REACTOR	A. Turkevich, Chicago, Ill.
3,074,871	ALLOY COMPOSITION FOR NEUTRONIC REACTOR CONTROL RODS	B. Lustman, Pittsburgh, Pa., E. F. Losco, Whitehall Borough, Pa., H. J. Snyder, Bethel Park, Pa., R. E. Eggleston, Whitehall Borough, Pa.
3,075,115	ION SOURCE WITH SPARE CHARGE NEUTRALIZATION	J. W. Flowers, Gainsville, Fla., J. S. Luce, Danville, Calif., and W. L. Stirling, Oak Ridge, Tenn.
3,075,385	HYGROMETER	C. H. Stover, Albuquerque, N. Mex.
3,075,583	SMALL-ANGLE DRILL-HOLE WHIPSTOCK	D. E. Nielsen, Livermore, Calif., J. L. Olsen and W. P. Bennett, Las Vegas, Nev.
3,075,637	REFRACTORY METAL TUBE DRAWING	C. H. Bean, La Grange, Ill., F. J. Karasek, Naperville, Ill.
3,075,694	PARTICLE SEPARATION METHOD	N. G. Anderson, Oak Ridge, Tenn.
3,075,825	LOW TEMPERATURE PROCESS FOR THE REMOVAL AND RECOVERY OF CHLORIDES AND NITRATES FROM AQUEOUS NITRATE SOLUTIONS	J. E. Savolainen, Oak Ridge, Tenn.
3,075,925	RADIATION SHIELDING COMPOSITION	H. L. Donegan, Livermore, Calif.

3,076,078	THERMAL RELAY DEVICE	R. O. Murdoch(title in Murdoch interest to U.S.) Albuquerque, N. Mex., and F. A. Record, Danvers, Mass.
3,076,091	MEASURING CIRCUIT	J. R. Mahoney, Oak Ridge, Tenn.
3,076,894	GAMMA RAY THICKNESS GAUGES	J. L. Putman, S. Jefferson and R. B. Owen, Abingdon, England
3,077,113	ROCKET PORT CLOSURE	J. T. Mattingly, Danville, Calif.
3,077,378	SEPARATION OF EUROPIUM FROM OTHER LANTHANIDE RARE EARTHS BY SOLVENT EXTRACTION	D. F. Peppard, Oak Ridge, Tenn., E. P. Horwitz, Park Forest, Ill, and G. W. Mason, Clarendon Hills, Ill.
3,077,505	HIGH TEMPERATURE THERMO-COUPLE	A. H. Eshays, Bellport, N.Y.
3,077,712	VACUUM TRAP AND VALVE COMBINATION	N. Milleron, Berkeley, Calif. and L. L. Levenson, Livermore, Calif.
3,078,551	METHOD OF MAKING A TUBE AND PLATE CONNECTION	P. Patriarca, Knoxville, Tenn., C. E. Shubert, Lenoir City, Tenn. and G. M. Slaughter, Oak Ridge, Tenn.
3,079,136	REUSABLE REACTION VESSEL	T. S. Soine, Richland, Wash.
3,079,179	COAXIAL TUBE COUPLING	H. R. Miezath, Elmhurst, Ill.
3,079,225	PROCESS FOR SEPARATING AMERICIUM AND CURIUM FROM RARE EARTH ELEMENTS	R. D. Baybarz, Powell, Tenn. and M. H. Lloyd, Oak Ridge, Tenn.
3,079,251	BRAZING ALLOYS	R. G. Donnelly, G. M. Slaughter, Oak Ridge, Tenn., and R. G. Gilliland, Knoxville, Tenn.
3,079,317	PRODUCTION OF TRITIUM	G. H. Jenks, Oak Ridge, Tenn., E. M. Shapiro, Springfield Township, Delaware County, Pa., N. Elliott, Bluepoint N.Y.
3,079,321	SODIUM DEUTERIUM REACTOR	E. D. Oppenheimer, Mamaroneck, N.Y. and R. A. Weisberg, Yonkers, N.Y.
3,079,323	COUPLING-CONTROL ROD DRIVE COUPLING MECHANISM	B. C. Hawke, San Diego, Calif.
3,080,308	SIMPLIFIED SODIUM GRAPHITE REACTOR SYSTEM	R. W. Dickinson, Van Nuys, Calif.
3,081,068	COLD TRAP	H. Milleron, Berkeley, Calif.
3,081,226	PROCESS FOR REDUCING EXOGENOUS CHLOESTERAL LEVELS IN ANIMAL ORGANISMS	H. R. DiLuzio, Memphis, Tenn.
3,081,237	DOUBLE-BAKED, SELF-CHANNELLING ELECTRODE	R. D. Piper, Des Peres, Mo. and R. F. Leifield, St. Louis, Mo.
3,081,247	MODERATOR ELEMENTS FOR UNIFORM POWER NUCLEAR REACTOR	R. Balent, Tarzana, Calif.
3,081,619	CONTINUOUS ANALYZER UTILIZING BOILING POINT DETERMINATION	W. S. Pappas, Oak Ridge, Tenn.
3,082,163	METHOD FOR PREPARING URANIUM MONOCARBIDE-PLUTONIUM MONOCARBIDE SOLID SOLUTION	A. E. Ogard, J. A. Leary and W. J. Maraman, Los Alamos, N. Mex.
3,084,041	PROCESS OF PRODUCING A NIOBIUM-TIN COMPOUND	S. T. Zegler, Park Forest, Ill., and J. B. Darby, Wheaton, Ill.
3,084,055	CADMIUM PHOSPHATE GLASS	H. W. Carpenter, Northridge, Calif., and P. D. Johnson, Chatsworth, Calif.
3,084,273	HIGH CURRENT RADIO FREQUENCY ION SOURCE	M. E. Abdelaziz, Naperville, Ill.
3,084,281	ION SOURCE (R.F. INDUCTION TYPE)	C. B. Mills, Packanak Lake, N.J.
3,085,173	APPARATUS FOR TRAPPING ENERGETIC CHARGED PARTICLES AND CONFINING THE RESULTING PLASMA	G. Gibson, Hayward, Calif., W. C. Jordan, Livermore, Calif.and E. J. Lauer, Alamo, Calif.
3,085,189	ENERGY-TRANSFER SYSTEMS	F. C. Thonemann, W. T. Cowhig and P. A. Davenport, Oxford, England
3,086,864	METHOD OF SUPPRESSING GASTROINTESTINAL UREASE ACTIVITY	W. J. Visek, Chicago, Ill.

3,086,926	METHOD OF DISSOLVING REFRACTORY ALLOYS	D. M. Helton, Clinton, Tenn. and J. E. Savolainen, Oak Ridge, Tenn.
3,086,930	ALLOY FOR FUEL OF NEUTRONIC REACTORS	C. H. Bloomster and Y. B. Katayama, Richland, Wash.
3,086,935	AN ASSEMBLY OF PARALLEL PLATES	E. F. Groh, Naperville, Ill. and D. H. Lennox, Elmhurst, Ill.
3,087,045	WELDING APPARATUS	T. B. Correy, D. E. DeWitt and I. V. Nelson, Richland, Wash.
3,087,056	HIGH VOLTAGE ELECTRODES	J. J. Murray, Oakland, Calif.
3,087,781	PREPARATION OF SPHERICAL URANIUM DIOXIDE PARTICLES	R. P. Levoy, Oak Ridge, Tenn. and A. E. Smith, South Clinton, Tenn.
3,087,876	METHOD OF SINTERING URANIUM DIOXIDE	J. A. Stavrolakis, Venis, Ohio and C. M. Henderson, Pittsburgh, Pa.
3,087,877	METHOD OF MAKING FUEL BODIES	W. V. Goeddel, San Diego, Calif. and M. T. Simnad, LaJolla, Calif.
3,087,879	CONTROL ROD	D. E. Walker, Park Forest, Ill. and S. Matras, Chicago, Ill.
3,087,881	BOILING WATER REACTOR WITH FEED WATER INJECTION NOZZLES	M. Treshow, Hinsdale, Ill.
3,088,200	MAGNETIC SHAPING PROCESS	D. H. Birdsall, Livermore, Calif. and R. E. Riley, Hayward, Calif.
3,088,671	MULTIPLIER CIRCUIT	R. L. Chase, Blue Point, N.Y.
3,088,800	DISSOLUTION OF URANIUM FUELS BY MONO- OR DIFLUOROPHOSPHORIC	R. Johnson, Shoreham, N.Y. F. L. Horn, Sayville, N.Y. and G. Strickland, Blue Point, N.Y.
3,088,823	SEPARATION OF URANIUM METAL FROM OXIDE AND SLAG IN THE REDUCTION OF URANIUM TETRA-FLUORIDE	O. R. Hagoteaux Cincinnati, Ohio
3,088,890	METHOD OF FABRICATING A GRAPHITE-MODERATED REACTOR	H. R. Kratz, Chicago, Ill.
3,088,891	FUEL ELEMENTS FOR NEUTRONIC REACTORS	F. G. Foote, Chicago, Ill. and E. R. Jatte(deceased) Los Alamos, N. Mex.
3,088,892	DISPERSION ELEMENT CONSISTING OF CERMINUM COATED UO_2 PARTICLES UNIFORMLY DISTRIBUTED IN A ZIRCALOY MATRIX	F. M. Cain and J. E. Eck Apollo, Pa.
3,088,894	CONFINEMENT OF HIGH TEMPERATURE PLASMA	H. R. Koenig, Rotterdam, N.Y.
3,088,895	BOILING SLURRY REACTOR AND METHOD OF CONTROL	M. Petrick, Joliet, Ill. and J. F. Marchaterre, Naperville, Ill.
3,088,904	NUCLEAR REACTOR	R. C. Post, Richardson, Texas
3,089,092	SYNCHROTRON RADIO FREQUENCY PHASE CONTROL SYSTEM	M. Plotkin, Massapeque Park, N.Y., E. C. Raka E. Patchogue, N.Y. and H. S. Snyder, Bellport, N.Y.
3,089,098	STABILIZED TRANSISTOR AMPLIFIER	J. B. Moe, Albuquerque, N. Mex.
3,089,751	SELECTIVE SEPARATION OF URANIUM FROM FERRITIC STAINLESS STEELS	R. J. Bearer, Knoxville, Tenn. and J. H. Cherubini Oak Ridge, Tenn.
3,089,768	DIMENSIONALLY STABLE CORROSION RESISTANT NUCLEAR FUEL	J. H. Kittel, Naperville, Ill.
3,089,830	METHOD OF MAKING A COMPARTMENTED FUEL ELEMENT FOR A NUCLEAR REACTOR	R. K. McGeary and E. Frisch, Pittsburgh, Pa.
3,089,838	SAFETY SYSTEM FOR CONTROL ROD	J. A. Paget, Poway, Calif.
3,089,839	CONTROL ROD DRIVE MECHANISM FOR A NUCLEAR REACTOR	B. C. Hawke, W. Lones, San Diego, Calif. and F. J. Liederbach Philadelphia, Pa.
3,089,840	NUCLEAR POWER PLANT	J. C. Carter, Elmhurst, Ill., R. H. Armstrong, Park Forest, Ill. and H. J. Janicke, Downers Grove, Ill.

3,089,957	GAMMA RADIATION DOSAGE-MEASURING GLASSES AND METHODS OF USING	A. M. Bishay, Chicago, Ill.
3,090,117	METHOD OF BRAZING BERYLLIUM	C. S. Hanks and R. W. Kail, Los Alamos, N. Mex.
3,090,480	SAMPLE CAN HANDLING MECHANISM	W. D. Egnor, Schenectady, N.Y. and G. L. Romine, Scotia, N.Y.
3,090,894	CRYOGENIC MAGNETS	R. F. Post, Walnut Creek, Calif. and C. E. Taylor, Livermore, Calif.
3,091,847	METHOD OF MANUFACTURE OF METAL ENCASED CORE MATERIAL	E. J. Peters, Santa Susana, Calif.
3,093,452	PRECIPITATION OF ZIRCONIUM AND FLUORIDE IONS FROM SOLUTIONS	B. J. Newby, Idaho Falls, Idaho
3,093,562	FLOW SYSTEM FOR REACTOR	W. H. Zinn, Hinsdale, Ill.
3,093,563	COMPOSITE NEUTRONIC REACTOR	J. R. Henke, Scarsdale, N.Y.
3,093,566	NUCLEAR REACTOR FUEL ELEMENT	E. L. Currier, Silver Spring, Md. and J. H. Nicklas, Riverdale, Md.
3,093,569	TRAVELING WAVE PYROTRON	R. F. Post, Walnut Creek, Calif.
3,093,733	RESONATOR PARTICLE SEPARATOR	J. P. Blewett, Bellport, N.Y. and J. D. Kiesling, River Edge, N.J.
3,093,738	AUTOMATIC HAND COUNTER	J. R. Mann, Nashville, Tenn. and A. E. Wainwright, Golden, Colo.
3,094,869	REMOTE RECORDING ANNULAR VANE ASSEMBLY	C. Wehmann, Idaho Falls, Idaho
3,096,220	CORROSION PROTECTION OF ALUMINUM	R. S. Dalrymple, Chesterfield Co., Va. and W. E. Nelson, San Jose, Calif.
3,096,263	NUCLEAR REACTOR FUEL ELEMENTS AND METHOD OF PREPARATION	W. E. Kingston, Bayside, N.Y. B. Kopelman, Flushing, N.Y. and H. H. Hausner, New York, N.Y.
3,096,269	COUNTER ROTATING PLASMA DEVICE	K. Halbach, D. Veron, Berkeley, Calif., and W. R. Baker, Orinda, Calif.
3,096,411	ACCELERATION RESPONSIVE SWITCH	A. F. Chabrek and R. L. Maxwell Albuquerque, N. Mex.
3,096,438	APPARATUS FOR THE MASS ANALYSIS OF PLASMA ON A CONTINUOUS BASIS	R. V. Neidigh, Knoxville, Tenn.
3,097,543	VARIABLE-THROW CAM	E. C. Godsil, E. Y. Robinson, Livermore, Calif.
3,097,630	STEAM GENERATOR	B. W. Kinyon and G. D. Whitman, Oak Ridge, Tenn.
3,097,920	REMOVAL OF CESIUM FROM AQUEOUS SOLUTIONS BY ADSORPTION	K. C. Knoll, Richland, Wash.
3,098,022	COVERING A CORE BY EXTRUSION	A. J. Karnie, Richland, Wash.
3,098,025	FOIL ELEMENT FOR NUCLEAR REACTOR	R. A. Noland, Chicago, Ill. D. E. Walker, Park Forest Ill. and B. I. Spinrad, Naperville, Ill.
3,098,028	PLUTONIUM ELECTRODEPOSITING CELL	L. J. Mullins, C. W. Bjorklund and W. J. Maraman, Los Alamos, N. Mex. J. A. Leary, Los Alamos, N.Mex.
3,098,709	FLUORINATION OF OXIDIC NUCLEAR FUEL	W. J. Mecham, Hinsdale, Ill. and J. D. Gabor, Cicero, Ill.
3,098,807	HIGH ENERGY RATE EXTRUSION OF URANIUM	L. Lewis, Bridgeport, Conn.
3,098,812	APPARATUS FOR CONTROL OF A BOILING REACTOR RESPONSIVE TO STEAM DEMAND	M. Treshow, Del Mar, Calif.
3,098,944	GAMMA PROPORTIONAL COUNTER CONTAINING HIGH Z GAS AND LOW Z MODERATOR	R. Fox, Oakland, Calif.
3,100,183	FUEL COMPOSITION FOR NUCLEAR REACTORS	J. C. Anderson, Niagara Falls, N.Y.
3,100,184	TRITIUM PRODUCTION BY NEUTRON-IRRADIATION OF ALUMINUM-LITHIUM ALLOY	B. M. Abraham, Chicago, Ill.
3,100,187	REFLECTOR FOR NEUTRONIC REACTORS	A. P. Fraas, Knoxville, Tenn.

3,100,188	REACTOR MODERATOR STRUCTURE	A. P. Fraas, Knoxville, Tenn. and J. J. Tudor, Oak Ridge, Tenn.
3,100,255	METHOD FOR AIR CARBON-ARC CUTTING OR GOUGING	J. Miller, Clinton, Tenn.
3,100,263	CONTINUOUS ROTATION SCATTERING CHAMBER	J. W. Verba and R. A. Hawryluk, Rochester, N.Y.
3,100,281	AN APPARATUS FOR MEASURING ANNULAR OFFSET BETWEEN A FIRST METAL TUBE AND A SECOND METAL TUBE SPATIALLY DISPOSED WITHIN THE FIRST TUBE	J. C. Spanner, Richland, Wash.
3,100,284	PULSE SYNTHESIZING GENERATOR	Q. A. Kerns, Orinda, Calif.
3,100,573	EXHIBIT STAND	G. R. Cox, Bellport, N.Y.
3,100,655	BAYONET TYPE COUPLING WITH PIVOTED SEGMENT RELEASE MEANS	R. O. Work, Albuquerque, N. Mex.
3,100,683	ABSORPTION OF CERIUM VALUES FROM AQUEOUS SOLUTIONS	F. P. Roberts, Richland, Wash.
3,100,686	METHOD FOR PREPARATION OF SINTERABLE BERYLLIUM OXIDE	B. J. Strum, Oak Ridge, Tenn.
3,100,730	METHOD FOR REDUCING THE IMPURITY RESISTIVITY OF SODIUM	R. F. Post, Walnut Creek, Calif.
3,100,742	FUEL ELEMENT FOR A NEUTRONIC REACTOR	R. K. McGeary, F. R. Winslow Pittsburgh, Pa.
3,101,058	DIAPHRAGM PUMPING SYSTEM	W. H. Carr, Oak Ridge, Tenn. and E. R. Dobyns, Cocoa Beach, Fla.
3,101,246	RECOVERY AND SEPARATION OF LITHIUM VALUES FROM SALVAGE SOLUTIONS	D. L. Hansford, Houston, Texas and E. W. Raabe, Cincinnati, Ohio
3,101,258	SPRAY CALCINATION REACTOR	B. M. Johnson, Kennewick, Wash.
3,101,309	FASTENER FOR AN ASSEMBLY OF PLATES	E. F. Groh, Naperville, Ill.
3,101,310	MAGNETIC END CLOSURES FOR PLASMA CONFINING AND HEATING DEVICES	R. F. Post, Walnut Creek, Calif.
3,101,406	ELECTRONIC INTEGRATING CIRCUIT	R. H. Engelmann, Castro Valley, Calif.
3,101,409	DRIFT CONTROL IN AN ANALYTICAL GAMMA RAY SPECTROMETER	L. E. Fite, Bryan, Texas
3,102,678	DIFFUSION PUMP	L. Lavenson, Livermore, Calif.
3,102,849	A PROCESS OF DISSOLVING FUEL ELEMENTS OF NUCLEAR REACTORS	E. M. Vander Wall, H. T. Hahn, Idaho Falls, Idaho and D. L. Bauer, Pocatello, Idaho
3,102,850	METHOD OF PREPARING A CERAMIC FUEL ELEMENT	W. T. Ross, C. H. Bloomster and R. E. Bardsley, Richland, Wash.
3,102,851	NEUTRONIC REACTION SYSTEM	E. P. Wigner, Oak Ridge, Tenn.
3,103,475	REACTOR	L. Szilard, Chicago, Ill.
3,103,853	HYDRAULIC SERVO CONTROL MECHANISM	R. B. Hussey, East Longmeadow, Mass. and M. J. Gottsche, Hampden, Mass.
3,104,134	NON-ROTATING DRILL GUIDE ASSEMBLY	D. E. Nielsen, Livermore, Calif., J. L. Olsen and W. P. Bennett, Las Vegas, Nev.
3,104,295	FAST OPENING SWITCH	M. Bender, P. K. Bennett and A. F. Kuckes, Princeton, N.J.
3,104,345	PLASMA GENERATOR	J. M. Wilcox, Berkeley, Calif. and W. R. Baker, Orinda, Calif.
3,104,502	APPARATUS FOR GRINDING SPHERICAL BODIES	R. F. Burch, Richland, Wash.
3,104,542	REMOTELY CONTROLLED DUST SAMPLER	M. F. Scoggins, Richland, Wash.
3,105,026	FUEL ELEMENT FOR NUCLEAR REACTORS	J. J. Dickson, Silver Spring, Md.
3,105,030	FUEL ELEMENT FOR A NEUTRONIC REACTOR	R. K. McGeary and F. R. Winslow, Pittsburgh, Pa.

3,105,035	CONSTRUCTION OF NUCLEAR FUEL ELEMENTS	S. J. Weems, Harbor, Fla.
3,105,036	PRESSURIZED WATER REACTOR CORE WITH PLUTONIUM BURNUP	K. H. Puechl, Pitcairn, Pa.
3,105,037	CONCENTRIC TUBE FUEL ELEMENT SPRING ALIGNMENT SPACER DEVICE	S. J. Weems, Harbor, Fla.
3,105,052	PREPARATION OF REFRACTORY OXIDE MICROSPHERE	C. C. Haws, Knoxville, Tenn.
3,105,189	A POSITIONAL DATA SYSTEM	G. A. Forster, Westmont, Ill.
3,105,215	AN ELECTRICAL THREE DIMENSIONAL FUNCTION PROGRAMMER	W. F. Siebold, Arnold, Md.
3,105,995	MOLDING APPARATUS	P. G. Fleming, Livermore, Calif.
3,107,976	NIOBIUM-TANTALUM SEPARATION	E. L. Koerner, Tonawanda, N.Y. M. Smutz and H. A. Wilhelm, Ames, Iowa
3,108,466	BLAST YIELD METER	H. H. Sander, M. Cowan, Albuquerque, N. Mex. and S. C. Hight, South Orange, N.J.
3,108,859	PULSED EXTRACTION COLUMN	O. H. Koski, Richland, Wash.
3,109,677	SELF-RELEASING GRAPPLING DEVICE	D. A. Hoover, Richland, Wash.
3,109,724	FILTER FOR HIGH VELOCITY GAS STREAMS	R. A. Heckman, H. F. Warner, Livermore, Calif.
3,109,730	DUCTILE URANIUM FUEL FOR NUCLEAR REACTORS AND METHOD OF MAKING	S. T. Zegler, Forest Park, Ill.
3,109,731	PRODUCTION OF ACTINIDE METAL	J. B. Knighton, Joliet, Ill.
3,109,735	SINTERING METHOD	J. M. Googin, Oak Ridge, Tenn.
3,109,752	OXIDATION-RESISTANT COATING ON ARTICLES OF YTTRIUM METAL	D. R. Wilder, and C. D. Wirkus, Ames, Iowa
3,109,766	CELLULAR CORE FOR CURVED SURFACES	C. B. Norris, Madison, Wis.
3,109,774	ERYTHROPOIETIC FACTOR PREPARATION	W. F. White, Lombard, Ill. and G. W. Weber, Chicago, Ill.
3,110,025	SYSTEM FOR MEASURING DISTANCE BY THE UTILIZATION OF PULSE ECHOES	M. W. Horrell, Detroit, Mich. and E. R. Sanders Amherst, N.Y.
3,110,555	SEPARATION OF PROTACTINUM FROM MOLTEN SALT REACTOR FUEL COMPOSITIONS	J. H. Shaffer, M. J. Kelly, Oak Ridge, Tenn., J. E. Strain and D. R. Cuneo, Kingston, Tenn.
3,110,556	PROCESS FOR SEPARATING YTTRIUM FROM THE RARE EARTHS BY SOLVENT EXTRACTION	D. F. Peppard, Oak Park, Ill. and G. W. Mason, Clarendon Hills, Ill.
3,110,835	FLEXIBLE GEIGER COUNTER	H. G. Richter, Chapel Hill, N.C. and A. S. Gillespie, Durham County, N.C.
3,110,872	RADIO FREQUENCY ATTENUATOR	S. Giordano, Port Jefferson Station N.Y.
3,111,374	RECOVERY OF ACTINIDES FROM AQUEOUS NITRIC ACID SOLUTIONS	M. Ader, Park Forest, Ill.
3,111,458	ERYTHROPOIETIC FACTOR PURIFICATION AND PRODUCT	W. F. White, Lombard, Ill., E. Goldwasser, G. F. Weber Chicago, Ill. and R. Egan Bound Brook, N.J.
3,111,475	FUEL ELEMENT FOR A NUCLEAR REACTOR	J. K. Davidson, Wheaton, Md.
3,111,477	FUEL ELEMENT	R. W. Bean, San Diego, Calif.
3,111,963	NOVEL FLOW DEVICE	R. E. Brockwell, Oak Ridge, Tenn.
3,112,095	FLUID PRESSURE AND CAM OPERATED VACUUM VALVE	T. H. Batzer, Livermore, Calif.
3,112,115	GOLD PRESSURE VESSEL SEAL	A. E. Smith, Clinton, Tenn.
3,112,196	METAL ALLOY SUITABLE FOR CONTROLLING THERMAL NEUTRON REACTORS	R. J. Schier, Richland, Wash.
3,112,275	REGENERATION OF HYDROCARBON SOLUTIONS OF TRIALKYL PHOSPHATE USED IN PROCESSING OF NUCLEAR FUEL	C. W. Pollock, Richland, Wash., and T. R. McKenzie, Pasco, Wash.
3,113,007	SCAVENGING OF RADIOACTIVE AEROSOLS	J. Rosinski, Cicero, Ill. and D. K. Werle, Franklin Park, Ill.

3,113,082	HEAT GENERATION	D. H. Imhoff, Walnut Creek, Calif. and W. H. Harker, Livermore, Calif.
3,113,091	NUCLEAR REACTOR AND THERMIONIC FUEL ELEMENT THEREFOR	H. S. Rasor and R. L. Hirsch, Northridge, Calif.
3,113,220	GUARD RING SEMICONDUCTOR JUNCTION	F. S. Goulding, Lafayette, Calif. and W. L. Hansen, Berkeley, Calif.
3,113,517	BOMB STABILIZING STRUCTURE	J. L. Kelley, New Orleans, La. and C. E. Runyan, Albuquerque, N. Mex.
3,113,755	VIBRATION DAMPING AND SHOCK MOUNT	D. J. Stevens, Overland Park, Kans. and G. W. Forman, Lawrence, Kans.
3,114,263	SUBCOOLING DETECTOR	J. A. McCann, Scotia, N.Y.
3,114,682	METHOD OF PREPARING CHROMIUM DIOXIDE	F. A. Scott and L. K. Hudge, Richland, Wash.
3,114,693	VENTED FUEL ELEMENT FOR GAS-COOLED NEUTRONIC REACTORS	W. T. Furgerson, Del Mar, Calif.
3,114,716	METHOD OF PREPARING RADIOACTIVE CESIUM SOURCES	T. C. Quinby, Kingston, Tenn.
3,115,194	NUCLEAR REACTOR APPARATUS FOR EARTH PENETRATION	W. M. Adams, Livermore, Calif.
3,115,446	FUEL ELEMENTS FOR NUCLEAR REACTORS	H. M. Finniston, Abingdon, England
3,115,447	NUCLEAR REACTOR FUEL ELEMENT ASSEMBLY	F. G. Stengel, Bridgeville, Pa.
3,115,451	LOGIC CIRCUIT	G. H. Strong, Richland, Wash. and M. L. Faught, Kennewick, Wash.
3,115,452	COMPOSITE CONTROL ROD	H. R. Rock, Lynchburg, Va.
3,115,453	EMERGENCY SHUTDOWN FOR NUCLEAR REACTORS	J. A. Paget, Poway, Calif., S. L. Kouts, San Diego, Calif., R. S. Stone, Del Mar, Calif. and H. B. Stewart, Rancho Santa Fe, Calif.
3,115,462	METHOD OF INHIBITING IRRADIATION-INDUCED VISCOSITY INCREASE OF ORGANIC FLUIDS	G. H. Denison, R. O. Bolt, San Rafael, Calif., J. W. Kent, El Cerrito, Calif. and F. A. Christiansen, Manhattan Beach, Calif.
3,115,467	METHOD OF INHIBITING IRRADIATION-INDUCED VISCOSITY INCREASE OF ORGANIC FLUIDS	G. H. Denison, R. O. Bolt, San Rafael, Calif., J. W. Kent, El Cerrito, Calif. and F. A. Christiansen, Manhattan Beach, Calif., J. G. Carroll, El Cerrito, Calif.
3,115,575	IMPROVED ION-PRODUCING MECHANISM FOR CALUTRONS	W. A. Bell, Oak Ridge, Tenn. and W. K. Prater, Knoxville, Tenn.
3,116,106	PREPARATION OF HIGH-DENSITY THORIUM OXIDE SPHERES	R. A. McNees, and A. J. Taylor, Oak Ridge, Tenn.
3,116,155	MAGNESIUM OXIDE SLIP CASTING METHOD	S. D. Stoddard and D. E. Nuckolls, Los Alamos, N.Mex.
3,116,209	METHOD FOR EXCHANGING ENERGY WITH A PLASMA BY MAGNETIC PUMPING	L. S. Hall, Livermore, Calif.
3,116,211	METHOD AND APPARATUS FOR EXAMINING FUEL ELEMENTS FOR LEAKAGE	R. M. Smith, M. W. Echo and C. B. Doc, Idaho Falls, Idaho
3,116,214	REACTOR MODERATOR STRUCTURE	B. L. Greenstreet, Oak Ridge Tenn.
3,116,350	PRODUCTION OF SLIP CAST CALCIA HOLLOWWARE	S. D. Stoddard, D. E. Nuckolls and R. E. Cowan, Los Alamos, N. Mex.
3,116,660	HIGH SPEED KERR CELL FRAMING CAMERA	W. C. Goss and L. F. Gilley, Livermore, Calif.
3,116,980	PULSE COLUMN	E. S. Grimmett, Idaho Falls, Idaho
3,117,372	STABILIZED RARE EARTH OXIDES FOR A CONTROL ROD AND METHOD OF PREPARATION	R. A. McNees, and R. A. Potter, Oak Ridge, Tenn.
3,117,912	METHOD OF PRODUCING NEUTRONS	D. H. Imhoff, Walnut Creek, Calif. and W. H. Harker, Livermore, Calif.
3,118,698	GRIPPING DEVICE FOR CYLINDRICAL OBJECTS	J. P. Filger, Richland, Wash.

3,118,764	LIQUID PHASE SINTERING OF METALLIC CARBIDES	J. P. Hammond, J. D. Sease, Knoxville, Tenn.
3,119,036	RADIATION MONITOR CONTAINING TWO CONCENTRIC IONIZATION CHAMBERS AND MEANS FOR INSULATING THE SEPARATE CHAMBERS	C. B. Braestrup, New York, N.Y. and R. T. Mooney, Hartsdale, N.Y.
3,119,238	CRYOGENIC	W. H. Chamberlain, Walnut Creek, Calif. and H. E. Maseck, Oakland, Calif.
3,119,537	MULTIPLE DIFFERENTIAL ROTARY MECHANICAL DRIVE	R. C. Smits, Lafayette, Calif.
3,119,653	PREPARATION OF URANIUM MONOSULFIDE	Z. Yoshioka, Westmont, Ill.
3,119,658	ALUMINUM CLADDING DISSOLUTION	W. W. Schulz, Richland, Wash.
3,119,723	APPARATUS FOR CONVERTING HEAT INTO ELECTRICITY	C. E. Crouthamel, Glenn Ellyn, Ill. and H. S. Foster, Lockport, Ill.
3,120,120	ULTRASONIC METHOD OF MEASURING THICKNESS USING LAMB WAVES	D. C. Worlton and C. L. Frederick, Richland, Wash.
3,120,435	REGENERATION OF FISSION-PRODUCTS-CONTAINING MAGNESIUM-THORIUM ALLOYS	P. Chiotti, Ames, Iowa
3,120,470	METHOD OF PRODUCING NEUTRONS	D. H. Imhoff, Walnut Creek, Calif. and W. H. Harker, Livermore, Calif.
3,120,476	PYROTRON PROCESS AND APPARATUS UTILIZING ENHANCEMENT PRINCIPLE	R. F. Post, Walnut Creek, Calif.
3,120,477	METHOD FOR CONFINING A DENSE PLASMA	A. J. Hatch, Chicago, Ill.
3,120,480	CONTROL ROD FOR NUCLEAR REACTORS	E. Ledin, LaJolla, Calif.
3,120,481	MEANS FOR PRODUCING HIGH DENSITY PLASMAS	R. F. Post, Walnut Creek, Calif.
3,120,493	SUPPRESSION OF RUTHENIUM VOLATILIZATION IN EVAPORATION AND CALCINATION OF RADIOACTIVE WASTE SOLUTION	W. E. Clark and H. W. Godbee, Oak Ridge, Tenn.
3,120,827	METHOD OF FORMING METAL PLATES WITH EXPLOSIVES	M. T. Abegg, Albuquerque, N. Mex. and R. A. Norwood, San Diego, Calif.
3,121,034	ZIRCONIUM ALLOY TREATMENT PROCESS	K. Anderko, Frankfurt am Main, H. Richter, Frankfurt am, Main Niederrad Germany and H. Schleicher, Chivasso, Italy
3,121,045	CONTROL ROD FOR NUCLEAR REACTOR	A. M. Harris, San Diego, Calif. and E. Ledin, LaJolla, Calif.
3,121,046	PRESSURE VESSELS	K. A. Trickett, San Diego, Calif. and J. T. Rogers, Peterborough, Ontario Canada
3,121,047	CERAMIC COATED FUEL PARTICLES	L. D. Stoughton, Chatham, N.J., J. M. Blocher and N. D. Veigel, Columbus, Ohio
3,121,052	CALANDRIA TYPE SODIUM GRAPHITE REACTOR	R. M. Peterson, Woodlands Hills, Calif., J. E. Mahlmeister, Granada Hills, Calif., N. E. Vaughn, Reseda, Calif., W. J. Sanders, Van Nuys, Calif. and A. C. Williams, Canoga Park, Calif.
3,121,128	PROCESS OF MAKING SHAPED FUEL FOR NUCLEAR REACTORS	W. J. O'Leary, Claymont, Del. and E. A. Fisher, Fostoria, Ohio
3,121,204	NON-REFLECTIVE LIQUID TERMINATION OF A COAXIAL CABLE	S. Giordano, Port Jefferson Station, N.Y.
3,121,666	NUCLEAR REACTOR FUEL ASSEMBLY	C. W. Wheelock, Enico, Calif.
3,121,825	ELECTRICALLY CONDUCTIVE FLOOR COVERING FOR USE IN EXPLOSIVE HAZARD AREAS	M. T. Abegg, Walnut Creek, Calif., O. D. Bottler, Alameda, Calif., J. D. Deligans, Livermore, Calif., and F. S. Nicholson, Hayward, Calif.
3,121,941	A FLUID OPERATED TOOL FOR COUPLING TUBES TOGETHER	H. J. Bellarts, Richland, Wash.
3,122,027	LINEAR MOTION DEVICE	E. Frisch, Pittsburgh, Pa. and T. F. Widmer, Monroeville, Pa.

3,122,178	MAGNETIC CORE PLANE THREADING MACHINE AND METHOD	J. P. Marine, New York, N.Y. and R. T. Shevlin, Kew Gardens, N.Y.
3,122,414	PROCESS FOR RECOVERY OF STRONTIUM VALUES FROM FISSION PRODUCT WASTE SOLUTIONS	D. E. Jorner, Clinton, Tenn. and R. P. Wischow, Knoxville, Tenn.
3,122,424	GRAPHITE BONDING METHOD	L. D. P. King, Santa Fe, N. Mex.
3,122,458	GRAIN REFINEMENT OF URANIUM BILLETS	L. Lewis, Bridgeport, Conn.
3,122,484	REACTOR HAVING FUEL ELEMENTS COATED WITH BURNABLE POISON	H. P. Iskenderian, Elmhurst, Ill.
3,122,509	COHERENT NUCLEAR REACTOR ELEMENTS	J. H. Handwerk and E. D. Lynch, Joliet, Ill.
3,122,595	CONTROLLED NUCLEAR REACTOR DISPERSIONS AND METHOD OF MAKING	J. H. Oxley, Columbus, Ohio
3,122,648	VERNIER CHRONOTRON UTILIZING AT LEAST TWO SHORTED DELAY LINES	R. P. Rufer, Castro Valley, Calif.
3,123,165	FRICTION-FREE BALANCE	N. J. Carson, Lockport, Ill. H. W. Ostrander, Westmont, Ill, and C. N. Hunter, Harvey, Ill.
3,123,328	SUPPORT STRUCTURE	K. A. Trickett, San Diego, Calif. and H. R. Graesmann, Solana Beach, Calif.
3,123,435	IMPROVED PROCESS OF PREPARING URANIUM CARBIDE	W. E. Miller, H. L. Stethers, Naperville, Ill. and T. R. Johnson, Glen Ellyn, Ill.
3,123,436	PREPARATION OF PuF_3	R. Benz, Los Alamos, N. Mex.
3,123,532	CONTROL ROD POSITIONED BY FLUID FLOW THROUGH THE ROD CHANNEL	J. W. Michel, Oak Ridge, Tenn.
3,123,533	PRESSURE RELIEF DEVICE FOR NEUTRONIC REACTORS	A. E. Galson, De Witt, N.Y.
3,123,535	DEVICE FOR PRODUCTION OF NUCLEAR ENERGY FROM U^{233}	G. T. Seaborg, Chicago, Ill., J. W. Gofman, Berkeley, Calif. and R. W. Stoughton, Oak Ridge, Tenn.
3,123,862	ULTRA-HIGH PRESSURE DEVICE	R. P. Levey, Oak Ridge, Tenn.
3,124,172	FRACTIONATING COLUMN PRODUCT COLLECTOR CONTROL	G. D. Paxson, El Cerrito, Calif.
3,124,513	CONTROL ROD DRIVE	B. C. Hawke, San Diego, Calif. and I. C. Thompson, Ramona, Calif.
3,124,514	CORE REFLECTOR FOR NUCLEAR REACTOR	S. L. Koutz, San Diego, Calif., W. A. Kalk, Poway, Calif. and F. B. Nimtz, National City, Calif.
3,124,538	METHOD FOR CONVERSION OF CESIUM ALUM TO RADIATION SOURCE MATERIAL	R. E. Lewis, Kingston, Tenn.
3,124,525	GRAPHITE PRODUCTION UTILIZING URANYL NITRATE HEXAHYDRATE	J. R. Armstrong, H. Sheinberg and D. H. Schell, Los Alamos, N. Mex.
3,125,409	THE RECOVERY OF URANIUM FROM GAS MIXTURE	S. H. Jury, Knoxville, Tenn.
3,125,492	PLASMA HEATING AND CONFINING SYSTEM	W. R. Baker, Orinda, Calif.
3,125,497	PURIFICATION PROCESS FOR URANIUM CARBIDE	W. N. Hanson, Canoga Park, Calif.
3,125,678	FAST NEUTRON DOSIMETER FOR HIGH TEMPERATURE OPERATION BY MEASUREMENT OF THE AMOUNT OF CESIUM 137 FORMED FROM A THORIUM WIRE	D. A. McCune, Scotia, N.Y.
3,125,760	FUEL LOCATING AND SUSPENDING SYSTEM FOR NEUTRONIC REACTOR CORE	J. Foster, A. H. Perry, Oak Ridge, Tenn. and A. P. Fraas, Knoxville, Tenn.
3,126,251	PLUTONIUM RECOVERY FROM NEUTRON-BOMBARDED URANIUM FUEL	R. H. Moore, Kennewick, Wash.
3,127,763	COMPACT CASCADE IMPACTS	M. Lippmann, Mount Vernon, N.Y.
3,127,872	EXPERIMENTAL ANIMAL WATERING DEVICE	H. P. Finkel, Chicago, Ill.
3,128,234	MODULAR CORE UNITS FOR A NEUTRONIC REACTOR	J. F. Gage, Saratoga, Calif. and D. B. Sherer, Gilroy, Calif.

3,128,405	EXTRACTOR FOR HIGH ENERGY CHARGED PARTICLES	G. R. Lambertson, Oakland, Calif.
3,129,329	FAST NEUTRON SPECTROMETER USING SPACED SEMICONDUCTORS FOR MEASURING TOTAL ENERGY OF NEUTRONS CAPTURED	T. A. Love and R. B. Murray, Oak Ridge, Tenn.
3,130,304	DEEP WATER ISOTOPIC CURRENT ANALYZER	W. H. Johnston, Baltimore, Md.
3,130,306	NUCLEAR RADIATION DOSIMETER USING COMPOSITE FILTER AND A SINGLE ELEMENT FILTER	E. Storm and S. Shlaer, Los Alamos, N. Mex.
3,130,307	NEUTRON FLUX INTENSITY DETECTION	J. T. Russell, Richland, Wash.
3,130,315	METHOD AND APPARATUS FOR PRODUCING AND ANALYZING POLARIZED GAMMA RADIATION	M. Hamermesh, Villa Park, Ill., S. S. Hanna, Western Springs, Ill. and G. J. Perlow, Downers Grove, Ill.
3,130,491	BONDING METHOD	E. V. Padgett, Richland, Wash. and D. H. Warf, Pasco, Wash.
3,130,841	ARTICLE HANDLING DEVICE	K. A. Trickett, San Diego, Calif.
3,131,139	RADIATION INDUCED VULCANIZATION OF RUBBER LATEX	R. B. Mesrobian, Hinsdale, Ill., D. S. Ballantine, Blue Point, N.Y. and D. J. Metz, Stony Brook, N.Y.
3,132,076	NUCLEAR REACTOR	J. N. West and R. W. Deutsch, Clearwater, Fla.
3,132,996	CONTRA-ROTATING PLASMA SYSTEM	W. R. Baker, Orinda, Calif. and K. Halbach, Berkeley, Calif.
3,132,997	HOMOGENEOUS REACTOR FUELED WITH SUSPENDED PARTICULATE IN THE COOLANT	H. M. Busey, Los Alamos, N. Mex.
3,133,248	ELECTROMETER UTILIZING A-C AND D-C VOLTAGE BALANCING	F. R. Shonka, Riverside, Ill.
3,133,867	NEUTRONIC REACTOR FUEL ELEMENT	E. Frisch, Pittsburgh, Pa.
3,134,019	RADIATION DETECTING WITH SHUTTER GLASS	A. M. Bishay, Argonne, Ill.
3,135,599	PRODUCTION OF URANIUM METAL POWDER IN A FLUIDIZED BED AND POWDER RESULTING THEREFROM	H. M. Heidt, Powell, Tenn.
3,135,665	FUEL ELEMENT FOR A NEUTRONIC REACTOR	S. L. Koutz, R. F. Turner, San Diego, Calif. and P. Fortescue, Rancho Santa Fe, Calif.
3,135,856	METHOD AND APPARATUS FOR SEALING TUBES	C. C. Stone, Downers Grove, Ill.
3,136,051	CLADDING OF NUCLEAR FUEL ELEMENTS	F. Quinlan and R. G. Wheeler, Richland, Wash.
3,136,432	TRANSFER MECHANISM	D. Nicoll, LaJolla, Calif. and M. E. Timin, San Diego, Cal.
3,136,593	ELECTRICAL CONNECTOR GROUNDING APPARATUS	E. F. Ehrman, Cedar Crest, N. Mex. and F. J. Sparber, Belen, N. Mex.
3,136,599	PLUTONIUM RECOVERY FROM NUCLEAR FUEL	R. H. Moore, Kennewick, Wash.
3,136,600	SEPARATION OF ACTINIDES FROM EACH OTHER	S. A. Adar, Beersheba, Israel, and P. R. Fields, Chicago, Ill.
3,136,697	HYDRAULIC SAMPLE CHANGER FOR TANK-TYPE WATER-COOLED NUCLEAR REACTORS	G. P. Arnold, F. D. Newcorn, W. D. Schafer, Los Alamos, N. Mex. and P. D. O'Brien, Albuquerque, N. Mex.
3,136,698	SERVO-CONTROLLED REGULATOR FOR NEUTRONIC REACTORS	E. R. Mann, Oak Ridge, Tenn.
3,136,699	NEUTRONIC REACTOR SYSTEM	W. H. Zinn, Chicago, Ill.
3,136,700	FUEL CHANNEL ELEMENTS FOR CIRCULATING FUEL NEUTRONIC REACTORS	H. F. Possendiek and N. D. Greene, LaJolla, Calif.
3,136,715	PROCESS OF REMOVING RUTHENIUM FROM AQUEOUS SOLUTIONS	L. L. Ames, R. Fullerton, D. W. Pearce, Richland, Wash.
3,136,902	TUNNEL DIODE DISCRIMINATOR CIRCUIT	Q. A. Kerns, Orinda, Calif.
3,136,948	D. C. INSTRUMENT TRANSFORMER SYSTEM	A. A. Windsor, Berkeley, Calif.

3,137,174	FLUID METERING DEVICE	L. R. Hawk, Hayward, Calif. and V. E. Scribner, Pleasanton, Calif.
3,137,397	NUCLEAR REACTOR FUEL HANDLING SYSTEM	D. Nicoll, LaJolla, Calif. and J. L. Hadgecock, Encinitas, Calif.
3,137,551	ULTRA HIGH VACUUM DEVICE	J. T. Mark, Lancaster, Pa.
3,137,634	NUCLEAR REACTOR OPERATION	W. B. Silker, Kennewick, Wash.
3,137,636	REACTOR FUEL ELEMENT CONTAINING ABSORBER	H. F. Wikner, Rancho Santa Fe, Calif.
3,137,657	CERAMIC PRODUCT COMPRISING SINTERED BERYLLIA AND BENTONITE AND METHOD	J. F. Quirk, Cardiff, Calif. and F. H. Loffrue, Del Mar, Calif.
3,138,453	TUNGSTEN ELECTRODES	E. L. Foster and R. R. Walker, Columbus, Ohio
3,138,535	NUCLEAR REACTOR HAVING TRANSFER MECHANISM	P. Fortescue, LaJolla, Calif. and D. Nicoll, Del Mar, Calif.
3,138,652	CAPACITOR WITH AN INTERNAL GAS BARRIER	E. L. Ford and R. E. Hampy, Albuquerque, N. Mex.
3,139,360	INSPECTABLE SOLDERING FLUX COMPOSITION	G. Voida, Albuquerque, N. Mex.
3,139,591	AMPLIFIER APPARATUS FOR HIGH ENERGY PARTICLE ACCELERATORS	R. H. Rheaume, Centereach, N.Y., R. E. Zider and F. A. Janik, Hedford, N.Y.
3,139,927	HEAT EXCHANGER	C. R. Binner, Highland Park, Ill. and C. W. Hammond, East Orange, N.J.
3,140,151	METHOD OF REPROCESSING UO_2 REACTOR FUEL	J. R. Foltz, Canoga Park, Calif. and W. J. Gardner, Woodland Hills, Calif.
3,140,171	PROCESS FOR PREPARATION OF URANIUM METAL	J. H. Trapp, Cincinnati, Ohio
3,140,173	TITANIUM PRIMER FOR AN EVAPORION PUMP	E. C. Hurst, Stoughton, Wis.
3,140,193	PROCESS FOR PRODUCING OXIDATION RESISTANT REFRACTORY COATING ON DENSE GRAPHITE	J.S. Kane, Livermore, Calif.
3,140,234	FAST REACTOR CORE	W. B. Loewenstein, Elmhurst, Ill.
3,140,235	DOWNFLOW PACKED BED NUCLEAR FISSION REACTOR	L. P. Hatch, Brookhaven, N.Y. and T. V. Sheehan, Hampton Bays, N.Y.
3,140,236	NUCLEAR REACTOR WITH IMPROVED BEAM TUBE	C. N. Kelber, Wheaton, Ill.
3,140,237	LARGE FAST NUCLEAR REACTOR	R. E. Peterson, Kennewick, Wash. and S. L. Stewart, Richland, Wash.
3,140,238	CHARGING AND SERVICE MACHINE FOR GAS-COOLED REACTORS	A. P. Fraas, Knoxville, Tenn. and J. J. Tudor, Oak Ridge, Tenn.
3,140,394	MEANS FOR DETERMINING THE DIRECTION AND VELOCITY OF NUCLEAR PARTICLES	A. Roberts, Chicago, Ill.
3,140,397	NEUTRON DETECTOR UNIT UTILIZING INDIUM	H. F. Henry, Greencastle, Ind.
3,140,398	NEUTRON DOSIMETER UTILIZING A FISSION FOIL	P. W. Reinhardt and F. J. Davis, Oak Ridge, Tenn.
3,140,479	TRANSISTORIZED ANALOG-TO-DIGITAL CONVERTER	R. L. Chase, Blue Point, N.Y.
3,140,820	METHOD FOR MAINTAINING VERY HIGH VACUUM IN A SYSTEM	R. E. Clausing, Oak Ridge, Tenn.
3,141,084	WEIGHTLESSNESS SWITCH	R. P. Stromberg, Albuquerque, N. Mex.
3,141,092	SELECTOR FOR FAST AND INTERMEDIATE ENERGY NEUTRONS POSITIONED	L. H. Weinberg, Schenectady, N.Y.
3,141,235	POWDERED TANTALUM ARTICLES	W. H. Lenz, Los Alamos, N. Mex.
3,141,380	DRIVE MECHANISM	A. M. Harris, San Diego, Calif. and E. Ledin, LaJolla, Calif.
3,141,413	REVERSIBLE ELECTROMAGNETIC FLUID PUMP	H. Heyman, Santa Fe, N. Mex.
3,141,826	APPARATUS AND METHOD FOR CONFINING A PLASMA	K. O. Friendrichs and H. Grad, New Rochelle, N.Y.

3,141,827	BREEDER REACTOR CORE WITH ALTERNATE ZONES OF DEPLETED AND ENRICHED FUEL	H. P. Iskenderian, Elmhurst, Ill.
3,141,829	FUEL ELEMENT	P. Fortescue, San Diego, Calif. L. R. Zumwalt, Rancho Santa Fe, N. Mex. and D. C. Morse, San Diego, Calif.
3,141,911	PROCESS FOR THE FABRICATION OF NUCLEAR FUEL ELEMENTS	J. J. Hauth, Richland, Wash.
3,143,478	HIGH FLUX BEAM REACTOR	J. Chernick, J. M. Hastings, Patchogue, N.Y., K. W. Downes, Setauket, N.Y., J. M. Hendrie, Bellport, N.Y. and H. J. C. Kouts, Brookhaven, N.Y.
3,144,200	PROCESS AND DEVICE FOR CRYOGENIC ADSORPTION PUMPING	C. E. Taylor, Livermore, Calif., A. L. Hunt, Alamo, Calif. and J. E. Omohundro, San Jose, Calif.
3,144,393	SUBCOOLED LIQUID INLET FOG COOLED NUCLEAR REACTORS	M. Raber, Yonkers, N.Y. and G. A. Sofar, White Plains, N.Y.
3,145,078	METHOD OF REPROCESSING NUCLEAR FUEL ELEMENTS	G. Strickland, Blue Point, N.Y., R. Johnson, Shoreham N.Y., F. L. Horn, Sayville, N.Y. and C. B. Bartlett, West Islip, N.Y.
3,145,151	FUEL ASSEMBLY FOR LOW POWER REACTORS	E. F. Groh, Naperville, Ill.
3,145,182	METHOD FOR IMPROVING HYDROLYSIS RESISTANCE OF URANIUM CARBIDE CONTAINING COMPOSITION	J. P. Hammond and J. D. Sease, Knoxville, Tenn.
3,145,284	SUPERCONDUCTIVE ELECTRIC SWITCH	H. L. Laquer, Espanola, N. Mex.
3,145,333	FORCE LIMITING DEVICE FOR MOTOR CONTROL	J. A. Pardini, Brookfield, Ill. and V. Hutter, Chicago, Ill.
3,145,956	PARACHUTE DEPLOYMENT CONTROL ASSEMBLY	H. E. Widdows, Albuquerque, N. Mex.
3,146,064	DECONTAMINATION OF URANIUM	R. L. Moore, Richland, Wash.
3,146,173	FUEL ELEMENT	P. Fortescue, D. C. Morse, San Diego, Calif. and L. R. Zumwalt, LaJolla, Calif.
3,146,281	PRODUCTION OF ROUND PARTICLES OF CERAMIC MATERIAL	C. W. Krystyniak, A. T. Muccigrosso, Schenectady, N.Y. and G. L. Floetz, Scotia, N.Y.
3,146,349	DETECTING HIDDEN EXPLOSIVES USING NEUTRON BEAMS	E. D. Jordan, Kensington, Md.
3,146,622	ATMOSPHERIC EDDY DISTURBANCE DETECTOR	H. Moses, Park Forest, Ill.
3,147,088	URANIUM-TIN-ZIRCONIUM CORROSION RESISTANT ALLOY	H. S. Kalish, Jackson Heights, N.Y. and H. H. Hausner, New York, N.Y.
3,147,109	SEPARATION OF PLUTONIUM, URANIUM, AMERICIUM AND FISSION PRODUCTS FROM EACH OTHER	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,147,396	METHOD AND APPARATUS FOR PHASING A LINEAR ACCELERATOR	D. J. Goerz, R. B. Neal, Menlo Park, Calif. and K. B. Mallory, Palo Alto, Calif.
3,148,941	DISSOLUTION OF URANIUM-MOLYBDENUM REACTOR FUEL ELEMENTS	T. A. Gens, Oak Ridge, Tenn.
3,148,989	DECONTAMINATION OF MILK FROM RADIOACTIVE ANIONIC INGREDIENTS	G. K. Murthy, J. E. Gilchrist, and J. E. Campbell, Cincinnati, Ohio
3,149,043	NUCLEAR REACTOR	L. Goldstein, Monsey, N.Y., L. Joseph, Greenburgh, N.Y., M. S. Silberstein, Briarcliff Manor, N.Y. and A. A. Weinstein, Bronx, N.Y.
3,149,044	ADVANCED TEST REACTOR	D. R. de Boisblanc, Idaho Falls, Idaho and B. H. Leonard, University City, Mo.
3,149,047	RESILIENT MODERATOR STRUCTURE FOR NEUTRONIC REACTORS	A. P. Fraas, Knoxville, Tenn.
3,149,611	ANIMAL WATERER; NIPPLE AND BOTTLE CAP COMBINATION	J. W. Harrison, Markham, Ill.
3,149,908	OXYCHLORIDES OF PENTAVALENT NEPTUNIUM	T. J. La Chapelle, Inglewood, Calif.
3,149,909	FLUIDIZED SOLIDS PROCESS FOR RECOVERY OF URANIUM FROM ZIRCONIUM-TYPE FUEL ELEMENTS	L. P. Hatch, Brookhaven, N.Y., J. J. Reilly, Bellport, N.Y. and W. H. Regan, Rockville, Md.

3,149,966	OXIDATION RESISTANT CERIUM ALLOYS	K. A. Gschneidner, Los Alamos, N. Mex.
3,149,968	APPARATUS FOR CORRECTING SENSITIVITY VARIATIONS IN PHOTOMULTIPLIER TUBES	L. D. Stephens, Walnut Creek, Calif.
3,150,051	PACKAGED NUCLEAR PLANT WITH INTEGRAL SUPERHEATER AND PRESSURIZER	J. H. Ammon, Akron, Ohio
3,150,053	STEAM-WATER MIXING DEVICE FOR STEAM-COOLED REACTOR	A. J. Goldman, G. Breidenbach, New York, N.Y.
3,150,054	HIGH FLUID FLOW RATE NUCLEAR REACTOR	R. H. Fox, Livermore, Calif.
3,150,055	REACTOR	H. E. Metcalf, Chicago, Ill.
3,150,057	FUEL SUBASSEMBLY FOR NUCLEAR REACTOR	H. O. Monson, Elmhurst, Ill. and E. Hutter, Chicago, Ill.
3,150,101	ION EXCHANGE RESIN WITH SCINTILLATING PROPERTIES	A. H. Heimbuch, El Cerrito, Calif.
3,150,159	REMOVAL OF HYDROCARBON DEGRADATION PRODUCTS FROM ORGANIC SOLUTIONS	J. M. Schmitt, Oak Ridge, Tenn.
3,150,281	GLASS OF HIGH ULTRAVIOLET, TRANSMITTANCE, METHOD AND ARTICLES MANUFACTURED THEREFROM	A. M. Bishay, Chicago, Ill.
3,150,291	INCREMENTAL ELECTRICAL METHOD AND APPARATUS FOR ENERGIZING HIGH CURRENT SUPERCONDUCTING ELECTROMAGNETS	H. L. Laquer, Espanola, N. Mex.
3,150,924	PRETREATMENT OF URANIUM DIOXIDE TO PROMOTE ITS CONVERSION TO URANIUM TETRAFLUORIDE	S. H. Smiley, D. C. Brater, Oak Ridge, Tenn. and C. C. Littlefield, Kingston, Tenn.
3,150,936	TUNGSTEN TUBING EXTRUSION BILLET	J. G. Hunt, Framingham, Mass.
3,150,964	PURIFICATION OF YTTRIUM METAL	O. N. Carlson, F. A. Schmidt and J. A. Haefling, Ames, Iowa
3,151,029	CORE ASSEMBLY FOR A NUCLEAR REACTOR	F. Schwoerer, Mount Lebanon, Pa.
3,151,034	CONSOLIDATED NUCLEAR STEAM GENERATOR ARRANGEMENT	R. M. Douglass, Akron, Ohio, R. W. Earle, H. Honig, and D. C. North, Lynchburg, Va.
3,152,868	PREPARATION OF SCANDIUM HYDRIDES	C. P. Kempter, and J. C. McGuire, Los Alamos, N. Mex.
3,152,887	AMERICIUM-CURIUM SEPARATION	S. Lawroski, R. K. Steunenberg, Naperville, Ill. and J. B. Knighton, Joliet, Ill.
3,152,959	INJECTION METHOD AND APPARATUS FOR CONTROLLED FUSION DEVICES	C. C. Damm, Alamo, Calif.
3,152,984	METHOD OF DEHYDRATING AND INSOLUBILIZING AN AQUEOUS NUCLEAR REACTOR WASTE SOLUTION	W. E. Winsche and M. W. Davie, Aiken, S. C.
3,153,482	LUBRICATION OF MANDRELS FOR TUBE EXTRUSION	B. J. Buntz, Cushing, Okla. and L. A. Unnerstall, Washington, Mo.
3,153,850	METHOD AND DEVICE FOR CONTROLLING ULTRASONIC WELDING APPARATUS	D. C. Worlton, Richland, Wash. and R. A. Walker, Pasco, Wash.
3,154,375	POTASSIUM PLUTONIUM SULFATE SEPARATION PROCESS	M. Cefola, Yonkers, N.Y.
3,154,376	EMULSION CONTROL IN LIQUID-SUSPENSION EXTRACTION	B. E. Paige, K. L. Rohde and B. J. Newby, Idaho Falls, Idaho
3,154,378	PROCESS FOR PREPARING URANIUM MONOCARBIDE	A. Schneider, L. Burris and S. Lawroski, Naperville, Ill.
3,154,379	PLUTONIUM SEPARATION FROM URANIUM AND LANTHANIDES BY PRECIPITATION FROM MOLTEN CHLORIDE SOLUTIONS	G. E. Benedict and J. L. Swanson, Richland, Wash.
3,154,408	URANIUM RECOVERY FROM ORE CONCENTRATES	J. B. Knighton, Joliet, Ill., R. K. Steunenberg, Naperville, Ill. and J. P. La Plante, Palos Park, Ill.
3,154,471	NUCLEAR REACTOR	A. Radkowsky, Silver Spring, Md.
3,154,500	STRONTIUM RECOVERY PROCESS	G. Jansen, Kennewick, Wash., G. L. Richardson, A. M. Platt, Richland, Wash. and L. A. Bray, Pasco, Wash.
3,154,501	POLONIUM COMPOUND HEAT SOURCES	M. R. Hertz, Kettering, Ohio

3,156,011	SELF-CONTAINED VARIABLE-ENVIRONMENT PRESSING DIE	D. M. Olson, Los Alamos, N. Mex.
3,156,523	ELEMENT 95 AND METHOD OF PRODUCING SAID ELEMENT	G. T. Seaborg, Chicago, Ill.
3,156,526	STAINLESS STEEL DECLADDING	L. P. Hatch, Brookhaven, N.Y., J. J. Reilly, Bellport, N.Y., C. B. Bartlett, West Islip, N.Y. and R. Johnson, Shoreham, N.Y.
3,156,532	YTTRIUM-90 GENERATOR	R. F. Doering, Smithtown, N.Y. and W. D. Tucker, Sayville, N.Y.
3,156,534	APPARATUS FOR TREATMENT OF MOLTEN MATERIAL	P. R. Josephson, Rochester, N.Y. and L. E. Burkhart, Ames, Iowa
3,156,622	APPARATUS FOR HEATING IONS IN A PLASMA	M. M. Hill, Livermore, Calif. and D. F. Martin, Alamo, Calif.
3,156,623	PLASMA SWITCHING PINCH TUBE	W. R. Baker, Orinda, Calif.
3,156,625	CORE FOR A SUPERCRITICAL PRESSURE POWER REACTOR	H. Harty, J. J. Regimbal, R. D. Widrig, Richland, Wash. and K. G. Toyoda, Pasco, Wash.
3,156,747	METHOD OF MAKING FUEL COMPACTS FOR NEUTRONIC SYSTEMS	J. E. Burke, Ballston Lake, N.Y.
3,156,851	TIMING MECHANISM	W. C. Monday, Albuquerque, N. Mex.
3,156,869	ELECTROMETER HAVING FLEXIBLE ELECTRODES AND FLEXIBLE FIBER	F. R. Shonka, Riverside, Ill.
3,157,463	EXTRACTION OF PLUTONIUM AND URANIUM VALUES FROM AQUEOUS SOLUTIONS	L. L. Burger, Richland, Wash.
3,157,637	METHOD OF SEPARATING NUCLEOTIDES	J. X. Khym, Oak Ridge, Tenn.
3,157,718	METHOD OF SINTERING CERAMIC SHAPES	W. J. O'Leary, Claymont, Del. and E. A. Fisher, Fostoria, Ohio
3,157,802	THERMIONIC ENERGY CONVERTER	R. Fox, Oakland, Calif.
3,158,098	LOW VOLTAGE DETONATOR SYSTEM	R. J. Raithel, Los Alamos, N. Mex.
3,158,457	ULTRA-CLEAN ROOM	W. J. Whitfield, Albuquerque, N. Mex.
3,158,468	SEPARATION OF AN ACTINIDE METAL FROM AN ALLOY	R. Pearlman, Tarzana, Calif. and L. A. Hanson, Canoga Park, Calif.
3,158,543	FUEL ASSEMBLY SUPPORT SYSTEM FOR NUCLEAR REACTOR	J. Sherman, Pittsburgh, Pa., J. E. Sharbaugh, West Mifflin, Pa., W. L. Fauth, Canonsburg, Pa., N. J. Palladino, Centre County, Pa. and P. G. De Huff, Bethel Park, Pa.
3,158,549	FUEL ASSEMELY FOR NEUTRONIC REACTOR	W. D. Fowler, Poway, Calif.
3,158,577	METHOD OF TREATING RADIOACTIVE WASTE	L. A. Bray and E. C. Martin, Richland, Wash.
3,158,614	PROCESS OF PRECIPITATING PLUTONIUM AND COMPOUNDS FORMED THEREBY	G. Seaborg, J. E. Willard and S. G. Thompson, Chicago, Ill.
3,158,815	BARKHAUSEN OSCILLATION ELIMINATION MEANS	J. P. Hoice, Albuquerque, N. Mex and G. L. Anderson, Boulder, Colo.
3,160,470	DISSOLUTION OF URANIUM OXIDE	M. C. Lambert, Richland, Wash.
3,160,471	PREPARATION OF DENSE URANIUM DIOXIDE PARTICLES	I. E. Knudsen, Downers Grove, Ill. A. A. Jonke, Elmhurst, Ill. and N. M. Levitz, Bellwood, Ill.
3,160,566	PLASMA GENERATOR	R. A. Dandl and W. B. Ard, Oak Ridge, Tenn.
3,160,568	NUCLEAR REACTOR	D. R. MacFarlane, Downers Grove, Ill.
3,160,817	SEGMENTAL TIME REVERSAL DEVICE	H. L. Libby and J. T. Russell Richland, Wash.
3,160,818	INTEGRATOR UTILIZING A BLOCKING OSCILLATOR CIRCUIT	J. L. Engle, New Lisbon, N.J.
3,161,462	ELEMENT 96 AND COMPOSITIONS THEREOF	G. T. Seaborg, Berkeley, Calif.
3,161,463	METHOD FOR PURIFICATION OF PROMETHIUM-147	P. B. Orr, Knoxville, Tenn.

3,161,570	HOMOGENEOUS-LIQUID METAL-FAST REACTOR	R. P. Hammond, H. M. Busey and J. R. Humphreys, Los Alamos, N. Mex.
3,161,571	BOILING-WATER NUCLEAR REACTOR	J. M. Harrer, Elmhurst, Ill., G. F. Bullinger, Palo Alto, Calif. and V. M. Kolba, Plainfield, Ill.
3,161,600	RADIOACTIVE STRONTIUM CONTAINMENT	G. B. Barton, Kennewick, Wash.
3,161,601	RADIOACTIVE CESIUM CONTAINMENT	G. B. Barton, Kennewick, Wash.
3,161,701	METHOD OF MAKING NUCLEAR FUEL COMPACT	D. E. Johnson, Cardiff, Calif. and P. H. Lofftus, Del Mar, Calif.
3,161,736	OMNIDIRECTIONAL SWITCH	R. A. Randall and D. F. Wilkes, Albuquerque, N. Mex.
3,161,896	RAM AIR INFLATED FLOTATION BAG	I. T. Holt and H. E. Widdows, Albuquerque, N. Mex.
3,162,509	PROCESS FOR PREPARATION OF SULFUR-CONTAINING COMPOUNDS OF PLUTONIUM	N. R. Davidson, Sierra Madre, Calif.
3,162,527	PLUTONIUM ALLOYS CONTAINING CONTROLLED AMOUNTS OF PLUTONIUM ALLOTROPES OBTAINED BY APPLICATION OF HIGH PRESSURES	R. O. Elliott and K. A. Gschneidner, Los Alamos, N. Mex.
3,162,577	REACTOR CONTROL WITH THORIUM CONTROL GRID	W. C. Redman, Hinsdale, Ill.
3,162,578	REACTOR AND APPARATUS FOR CONTROL THEREOF	A. Allen, Medford, Mass.
3,163,759	NEUTRON FLUX DETECTOR	R. N. Cordy, Sherman Oaks, Calif. and J. W. Flora, Denver, Colo.
3,163,915	METHOD OF FABRICATING SURFACE BARRIER DETECTORS	R. J. Fox, Oak Ridge, Tenn.
3,164,019	MASS FLOW MEASURING DEVICE	G. M. Burgwald, Belmont, Calif., L. Reiffel, Chicago, Ill., W. K. Genthe, Menomonee Falls, Wis. C. Fyfe, Fox Point, Wis.
3,164,440	GAS-SOLIDS CONTACTING METHOD	R. P. Levey, Oak Ridge, Tenn
3,164,462	PREPARATION OF THORIUM METAL FROM THE OXIDE	J. B. Knighton, Joliet, Ill. and A. V. Hariharan, Westmont, Ill., R. K. Steunenberg, Naperville, Ill. and W. H. Hauschildt, Hinsdale, Ill.
3,164,718	ION PULSE GENERATOR COMPRISING DEFLECTOR MEANS TO SWEEP AN ION BEAM ACROSS AN APERTURED MEMBER	R. F. King, Knoxville, Tenn.
3,164,897	METHOD OF BRAZING	P. Patriarca, Knoxville, Tenn. and G. M. Slaughter, Oak Ridge, Tenn.
3,165,376	PROCESS FOR SEPARATION AND RECOVERY OF VOLATILE FLUORIDE IMPURITIES FROM URANIUM HEXAFLUORIDE CONTAINING THE SAME	W. R. Golliher, Paducah, Ky.
3,165,377	SEPARATION OF STAINLESS STEEL FROM A NUCLEAR FUEL	H. M. Katz, Port Jefferson, N.Y.
3,165,417	HIGH STRENGTH BERYLLIA ARTICLES	P. P. Turner, Cincinnati, Ohio
3,165,422	CERAMIC COATED FUEL PARTICLES	L. D. Stoughton, Chatham, N.J., F. M. Blocher and N. D. Veigel, Columbus, Ohio
3,165,427	METHOD OF HEAT TREATING TUNGSTEN WIRE OR RIBBON	E. C. Hurst, Stoughton, Wis.
3,165,448	NUCLEAR REACTOR CORE AND FUEL ASSEMBLY	W. H. McCorkle, Hinsdale, Ill. and H. S. Cern, Chicago, Ill.
3,165,475	STRONTIUM COMPOSITION AND PROCESS OF MAKING IT	L. C. Amos, Longview, Wash.
3,165,835	APPARATUS FOR CHECKING THE ALIGNMENT OF VERTICAL CHANNELS	R. D. Duncan, Richland, Wash.
3,165,922	METHOD OF APPLYING LAMB WAVES IN ULTRASONIC TESTING	D. C. Worlton, Richland, Wash.
3,166,133	SEALING MEANS	D. W. Hall and B. D. Troyer, Boulder, Colo.
3,166,136	APPARATUS FOR WEIGHING MATERIAL IN A SEALED ENCLOSURE	R. T. Coffman, Richland, Wash.
3,166,595	N, N-DIFLUOROALKYLAMINES	J. W. Frazer, Livermore, Calif.

3,167,070	RESPIRATOR WITH POSITIVE AIR SEAL	L. Silverman, Dover, Mass.
3,167,447	CARBON BODY TREATMENT	G. R. Tully, Poway, Calif., B. F. Disselhorst, Solana Beach, Calif. and D. E. Davis, Escondido, Calif.
3,167,482	FUEL ELEMENT	K. Katz, Pittsburgh, Pa.
3,167,654	DOUBLE PULSE RECOGNITION CIRCUIT	L. Scott, Paris, France
3,167,655	TARGET FOR A NEUTRON GENERATOR CONSISTING OF A COATING OF ONE OF THE LANTHANON ELEMENTS ON A BASE METAL	R. Redstone, Baldock, England, and H. C. Rowland, Hitchin, England
3,167,693	LIQUID LEVEL CAPACITANCE PROBE	J. C. Bronson, Los Alamos, N. Mex.
3,169,057	SEPARATION OF PLUTONIUM, URANIUM AND FISSION PRODUCTS FROM EACH OTHER	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,169,117	NUCLEAR REACTOR FUEL PASTE COMPOSITION	R. W. Dickinson, Northridge, Calif. and D. T. Eggen, Santa Susana, Calif.
3,169,187	LOW ENERGY BETA RADIATION SYSTEM FOR FLUENT MATERIALS WITH PLURAL SCINTILLATION FIBERS IN HEXAGONAL ARRAY	C. A. Stone, South Holland, Ill., L. Reiffel, Chicago, Ill. and I. Filosofo, Padova, Italy
3,169,200	THERMOTUNNEL CONVERTER	F. N. Huffman, Baltimore, Md.
3,170,234	JOINTING OF REFRACTORY METALS BY SOLID-STATE DIFFUSION BONDING	C. O. Tarr, Cincinnati, Ohio
3,170,759	METHOD OF MAKING PLUTONIUM MONO-CARBIDE	R. M. Mayfield, Glen Ellyn, Ill. and W. G. Tope, Naperville, Ill.
3,170,788	URANIUM BASE ALLOY	M. H. Binstock, Canoga Park, Calif. and H. E. Kline, Chatsworth, Calif.
3,170,812	METHOD OF VITRIFYING CERAMIC COATINGS	M. A Schwartz, Dayton, Ohio
3,170,824	IRON ALLOY	D. B. Roach, D. A. Roberts and A. M. Hall, Columbus, Ohio
3,170,841	PYROTRON THERMONUCLEAR REACTOR AND PROCESS	R. F. Post, Walnut Creek, Calif.
3,170,843	PASTE REACTOR	R. P. Hammond, Los Alamos, N. Mex.
3,170,844	CONTROL ROD DRIVE MECHANISM	D. Nicoll, San Diego, Calif.
3,170,846	STEAM GENERATOR	B. Blumberg, Wyoming, Ohio
3,170,847	SELF-MODERATING FUEL ELEMENT	J. A. Dudek and E. L. Reed, Woodland Hills, Calif.
3,170,884	NAPHTHALENE DERIVATIVE SCINTILLATORS	R. L. Macklin, Oak Ridge, Tenn.
3,171,025	LONG STRAIGHT SECTIONS FOR ALTERNATING GRADIENT SYNCHROTRONS	T. L. Collins, Watertown, Mass.
3,171,037	SEMICONDUCTOR BISTABLE CIRCUIT WITH INTEGRAL GATE	W. J. Poppelbaum, Champaign, Ill. and N. E. Wiseman, Hertz, England

PATENTS WHICH HAVE ISSUED TO THE COMMISSION AND WHICH ARE AVAILABLE TO THE PUBLIC FOR LICENSING IN ACCORDANCE WITH THE LICENSING POLICY OF THE COMMISSION

3,160,567	SOLID STATE POWER MAPPING	R. Steinberg, Fairview Park, Ohio and W. B. Schwab, Cleveland, Ohio
3,171,714	METHOD OF MAKING PLUTONIUM OXIDE SPHERES	L. V. Jones, Miamisburg, Ohio, D. Ofte, Kettering, Ohio, P. A. Tucker and L. J. Wittenberg, Dayton, Ohio
3,171,715	METHOD FOR PREPARATION OF SPHERICAL THORIUM DICARBIDE AND THORIUM-URANIUM DICARBIDE PARTICLES	A. T. Kleinsteuber, Oak Ridge, Tenn.
3,171,788	ROTATING PLASMA DEVICE	J. G. Gorman, Trenton, N.J. and L. H. Rietjens, Rijnhuizen, Jutphaas, Netherlands
3,171,815	METHOD FOR PREPARATION OF THORIUM DICARBIDE AND THORIUM-URANIUM DICARBIDE PARTICLES	J. L. Kelly, O. C. Dean, Oak Ridge, Tenn. and D. E. Ferguson, Knoxville, Tenn.
3,173,284	DRAWING APPARATUS	C. H. Bean, Naperville, Ill.
3,173,747	PURIFICATION OF STRONTIUM SOLUTIONS BY ION EXCHANGE	E. J. Wheelwright, L. A. Bray, R. L. Moore and F. P. Roberts, Richland, Wash.
3,173,880	MOISTURE INDICATOR AND METHOD OF MAKING THE SAME	W. S. Pappas and C. W. Weber, Oak Ridge, Tenn.
3,173,973	GRAPHITE DISPERSION	M. C. Brockway, Columbus, Ohio
3,173,983	ARC POSITIONING SERVO	J. L. Engle, New Lisbon, N.J.
3,174,153	SWEEPING IMAGE MIRROR CAMERA	T. Anderson, Castro Valley, Calif.
3,174,818	REDUCING CORROSION OF STAINLESS STEEL IN HOT NITRIC ACID SOLUTIONS BY ADDING CARBON BLACK OR ELEMENTAL SULFUR TO THE SOLUTION	F. G. Rust, Evans, Ga.
3,174,834	FLUIDIZED BED REACTOR	R. M. Edwards, Tucson, Ariz., S. M. Robinson, Brentwood, Mo. and E. F. Sanders, St. Louis, Mo.
3,174,921	POLYMERIZATION OF ISOBUTYLENE	M. S. Matheson, Hinsdale, Ill.
3,175,104	HIGH VOLTAGE ELECTRIC GENERATOR	C. D. Curtis, Madison, Wis.
3,175,131	MAGNET CONSTRUCTION FOR A VARIABLE ENERGY CYCLOTRON	E. L. Kelly, R. J. Burleigh, J. H. Dorst and C. G. Dols, Berkeley, Calif.
3,175,922	METHOD FOR COATING ACTINIDE PARTICLES	J. M. Blocher and M. F. Browning, Columbus, Ohio
3,175,931	TREATMENT OF ALUMINUM SURFACES	C. A. Burgess, Kennewick, Wash. and J. D. Schaffer, Richland, Wash.
3,175,955	GRADIENT FUEL PLATES	R. D. Cheverton, Knoxville, Tenn.
3,176,154	THREE STATE MEMORY DEVICE	F. O. Salter, Glen Ellyn, Ill.
3,176,195	SUPERCONDUCTING SOLENOID	R. W. Boom and L. D. Roberts, Oak Ridge, Tenn.
3,177,373	TRANSISTORIZED LOADING CIRCUIT	R. H. Graham, Walnut Creek, Calif.
3,177,408	SUPERCONDUCTOR SOLENOID WITH OVERHEAT PROTECTIVE STRUCTURE AND CIRCUITRY	R. G. Mills and K. E. Wakefield, Princeton, N.J.
3,177,482	SERVO-STABILIZED ANALOG-TO-DIGITAL CONVERTER FOR HIGH RESOLUTION PULSE ANALYSIS	R. L. Chase, Blue Point, N.Y.
3,177,553	APPARATUS FOR SOLVENT-ISOSTATIC PRESSING	P. B. Archibald, Pleasanton, Calif.
3,178,256	METHOD FOR SEPARATING TRANSPLUTONIUM ELEMENTS FROM RARE EARTH FISSION PRODUCTS	F. L. Moore, Knoxville, Tenn.
3,178,258	SEPARATION OF PLUTONIUM HEXAFLUORIDE FROM URANIUM HEXAFLUORIDE BY SELECTIVE SORPTION	G. I. Cathers, Knoxville, Tenn. and R. L. Jolley, Oak Ridge, Tenn.
3,178,259	NITRIDED ELECTRODE PROCESS OF PREPARING URANIUM MONONITRIDE	E. L. Foster, Powell, Ohio and R. W. Endebrock, Columbus, Ohio
3,178,356	NUCLEAR REACTOR	C. W. Wheelock, Canoga Park, Calif.
3,179,501	COUNTERCURRENT NUCLEAR-FUEL LIQUID-LIQUID EXTRACTION APPARATUS	J. P. Duckworth, Richland, Wash.

3,179,503	EXTRACTION OF CESIUM FROM AQUEOUS SOLUTION USING PHENOLS	D. E. Horner, Clinton, Tenn., D. J. Crouse and K. B. Brown, Oak Ridge, Tenn.
3,179,581	ELECTROCHEMICAL DOSIMETER	S. Z. Lewis, Bayside, N.Y. and R. H. Koslow, New York, N.Y.
3,179,722	METHOD OF PREPARING SPHERICAL NUCLEAR FUEL PARTICLES	H. E. Shoemaker, San Diego, Calif.
3,179,723	METHOD OF FORMING METAL CARBIDE SPHEROIDS WITH CARBON COAT	W. V. Goeddel, Poway, Calif.
3,180,704	PROCESS OF MAKING ACTINIDE SULFIDE AND SIMILAR COMPOUNDS	Y. Baskin, Chicago, Ill.
3,180,756	COPPER METALLIZING OF ALUMINA CERAMICS	R. E. Cowan, Los Alamos, N. Mex.
3,180,800	NEUTRONIC REACTOR INCLUDING MEANS FOR UNLOADING AND HERMETICALLY ENCLOSING SPENT FUEL ELEMENTS	P. Fortescue, LaJolla, Calif. and D. Nicoll, Del Mar, Calif.
3,180,801	HEAVY WATER MODERATED ORGANIC COOLED NUCLEAR FISSION REACTOR	R. J. Rickert, W. S. Flinn, Bloomfield, Conn. J. F. Rohlin, Wapping, Conn. and J. J. Roth, Granby, Conn.
3,181,004	BINARY MEMORY DEVICE EMPLOYING FLIP-FLOP THAT IS CONTROLLED BY IN-PHASE DRIVERS	H. Guckel, Urbana, Ill.
3,181,653	CRASH ENERGY ABSORBER FOR HEAVY APPARATUS	J. A. Roskelley, Concord, Calif.
3,181,700	IMMISCIBLE LIQUIDS SEPARATOR	J. C. Hesson, Riverdale, Ill.
3,182,102	METHOD AND APPARATUS FOR MAKING DENSE BODIES OF REFRACTORY MATERIALS	M. T. Simnad, Wellesley, Mass.
3,182,208	LINEAR GATE WITH GATING PULSES APPLIED TO COLLECTOR THROUGH THE PRIMARY OF A TRANSFORMER	J. Fischer, Patchogue, N.Y., W. A. Higinbotham, Bellport, N.Y. and R. L. Chase, Blue Point, N.Y.
3,182,280	PROTECTION OF ELECTRICAL CONNECTOR CONTACT PINS	F. X. Daut and R. O. Work, Albuquerque, N.Mex.
3,182,499	METHOD OF MEASURING WIND VELOCITY	H. Moses, Park Forest, Ill.
3,183,059	PLUTONIUM ADSORPTION AND DESORPTION	A. E. Reisenauer and L. L. Ames, Richland, Wash.
3,183,061	XENON TETRAFLUORIDE AND PROCESS OF MAKING SAME	H. H. Claassen, Wheaton, Ill., H. Selig, Chicago, Ill and J. G. Malm, Naperville, Ill.
3,183,166	LOW TEMPERATURE GRAPHITE RADIATION DAMAGE REMOVAL	D. G. Schweitzer, R. M. Singer, East Islip, N.Y. and D. H. Gurinsky, Center Moriches, N.Y.
3,183,390	PHOTOMULTIPLIER	R. J. Grader, Pleasanton, Calif. and M. P. Makada, Silver Spring, Md.
3,183,499	HIGH DIRECTIVITY SOLID CURTAIN PERIMETER INTRUSION SYSTEM	R. G. Cowen, Frederick, Md.
3,183,936	EXPANSION JOINT	R. Michel, Hyattsville, Md.
3,184,604	HIGH-DUTY-CYCLE MULTIVIBRATOR	D. O. Hale, Walnut Creek, Calif.
3,184,849	MINI-CAM TRACER PLATE	E. J. Sass, Los Alamos, N. Mex.
3,184,915	ELECTROSTATIC PROPULSION SYSTEM WITH A DIRECT NUCLEAR ELECTRO GENERATOR	C. A. Low, Cleveland, Ohio and W. R. Mickelson, Berea, Ohio
3,185,063	MAGNETICALLY ACTUATED SHUTTER	F. C. Ford, Pleasanton, Calif., E. B. Nelson, Albuquerque, N. Mex. and W. H. Trimble and S. Zizzo, Livermore, Calif.
3,185,548	PROCESS OF MAKING RADON FLUORIDE AND OF SEPARATING RARE GASES FROM EACH OTHER	P. R. Fields and M. H. Zirin, Chicago, Ill. and L. Stein, Downers Grove, Ill.
3,188,169	SEPARATION OF METAL VALUES BY CATION EXCHANGE FROM CONCENTRATED PERCHLORIC ACID SOLUTION	K. A. Kraus and F. Nelson, Oak Ridge, Tenn.
3,188,231	PROCESS OF MAKING CRUCIBLES	Z. D. Jastrzebski, Easton, Pa.
3,188,278	FUEL ELEMENT FOR A SUPERCRITICAL PRESSURE POWER REACTOR	H. Harty, J. J. Regimbal, R. D. Widrig, Richland, Wash. and K. G. Toyoda, Pasco, Wash.
3,188,470	METHOD OF DETERMINING THE NEGATIVE REACTIVITY OF NEUTRONIC MULTIPLYING SYSTEMS	C. W. Ricker, A. L. Colomb and E. R. Mann, Oak Ridge, Tenn.

3,189,023	BLOOD PRESSURE INDICATING DEVICE	P. Salz, N. W. Yanni, Berkeley, Calif. and M. B. Bacaner, Minneapolis, Minn.
3,189,419	ZONE-MELTING CRYSTALLIZATION TECHNIQUE	W. R. Wilcox, Torrance, Calif.
3,189,445	BINARY NICKEL BASE ALLOYS	V. P. Calkins, J. A. McGurty, Cincinnati, Ohio and E. S. Funston, Hamilton, Ohio
3,189,446	TERNARY NICKEL BASE ALLOYS	V. P. Calkins, J. A. McGurty, Cincinnati, Ohio and E. S. Funston, Hamilton, Ohio
3,189,476	METALLIZING PROCESS FOR CERAMICS	R. E. Cowan, Los Alamos, N.Mex.
3,189,666	METHOD OF PREPARING URANIUM DIOXIDE FUEL COMPACTS	R. P. Levey, Oak Ridge, and P. E. Trent, Norris, Tenn.
3,189,817	DEVICE FOR TESTING METAL SHEETS BY MEASURING THE TIME REQUIRED FOR ELECTROMAGNETIC PULSES TO PASS THERETHROUGH	C. J. Renken, Orland Park, Ill.
3,189,833	VARIABLE TIME CONSTANT PULSE INTEGRATOR	G. W. Rodgers, Albuquerque, N. Mex.
3,189,861	ROTARY CONTACT	W. M. Cooper and J. A. Masters, Livermore, Calif.
3,190,804	METHOD FOR PRODUCING, SEPARATING AND PURIFYING PLUTONIUM	G. T. Seaborg, Chicago, Ill., J. W. Kennedy, Santa Fe, N. Mex. and A. C. Wahl, Berkeley, Calif.
3,191,028	SCANNING ELECTRON MICROSCOPE	A. V. Crewe, Palos Park, Calif.
3,191,048	LIGHT SENSITIVE ALARM SYSTEM	R. G. Cowen, Frederick, Md.
3,191,092	PLASMA PROPULSION DEVICE HAVING SPECIAL MAGNETIC FIELD	W. R. Baker, R. W. Layman and K. Halbach, Berkeley, Calif.
3,191,662	CONTINUOUS SOLUTION CONCENTRATOR	K. J. Schneider, Richland, Wash.
3,191,792	MEMBRANCE DOUBLE WALL INTERCONNECTED PRESSURE VESSEL	D. A. Hunt, Hawthorne, Calif.
3,192,016	XENON HEXAFLUORIDE AND METHOD OF MAKING	J. G. Malm, Naperville, Ill., I. Sheft, Oak Park, Ill., H. H. Classen, Wheaton, Ill. and C. L. Chernick, River Forest, Ill.
3,192,054	FOOD IRRADIATOR AND METHOD	O. A. Kuhl, Northport, N.Y. and A. B. Oltmann, Bayport, N.Y.
3,192,069	RADIOACTIVE ISOTOPE POWERED THERMOELECTRIC GENERATOR SYSTEM	J. H. Vogt, Manchester, Conn., C. N. Young and W. C. Reed, Baltimore, Md.
3,192,122	FUEL ELEMENT FOR A NUCLEAR REACTOR HAVING STACK OF THIN FUEL WAFERS SUBMERGED IN LIQUID METAL	L. R. Kelman, Naperville, Ill., and O. L. Kruger, Westmont, Ill.
3,192,858	ARMING DEVICE FOR AERIAL BOMBS	C. B. Crumb, Cincinnati, Ohio
3,193,380	URANIUM GALLIUM ALLOYS AND METHOD OF PREPARATION	W. D. Wilkinson, Maywood, Ill. and L. R. Kelman, Chicago, Ill.
3,193,466	NEUTRONIC REACTOR OPERATION	U. M. Staebler, Silver Spring, Md.
3,193,467	REACTOR CONTROL	L. A. Evans, Schenectady, N.Y.
3,193,712	HIGH VOLTAGE CABLE	C. A. Harris, Berkeley, Calif.
3,194,293	SHOCK ABSORBING CASTER WHEEL	R. J. Kindley, Albuquerque, N. Mex.
3,194,701	METHOD FOR FORMING P-N JUNCTIONS ON SEMICONDUCTORS	R. P. Lothrop, San Mateo, Calif.
3,194,745	URANIUM MONOSULFIDE-MONOCARBIDE NUCLEAR FUEL ELEMENT	J. H. Handwerk, G. D. White, Joliet, Ill. and P. D. Shalek, Champaign, Ill.
3,194,937	PORTABLE ELECTRIC WELDER	C. D. Brons, Richland, Wash., and W. W. Gaither and L. J. Rousseau, Kennewick, Wash.
3,195,061	RADIO FREQUENCY AMPLIFICATION BY STIMULATED EMISSION OF RADIATION	C. D. Jeffries, O. Chamberlain, C. H. Schultz and G. Shapiro, Berkeley, Calif.
3,195,123	ANALOGUE TO DIGITAL CONVERTER	H. I. West, Livermore, Calif.
3,195,930	DEVICE FOR COUPLING A CHARGING APPARATUS TO A REACTOR NOZZLE	R. J. Ascherl, Latina, Italy, E. T. Hubbard, Livermore, Calif., D. R. Resner, Kennewick, Wash. and C. R. Oak, Richland, Wash.
3,195,963	STEPPED GAS BEARING	T. Anderson, Castro Valley, Calif.

3,195,977	RECOVERY OF PLUTONIUM AND/OR URANIUM VALUES FROM AQUEOUS SOLUTIONS	A. R. Matheson, Ballston Lake, N.Y.
3,195,984	COLUMN DISSOLVER	A. E. Sands, Oak Ridge, Tenn.
3,197,377	REACTOR MONITORING MEANS	L. A. Ohlinger, Chicago, Ill.
3,197,389	METHOD FOR FABRICATING SELF-MODERATING NUCLEAR REACTOR FUEL ELEMENT	J. A. Dudek and E. L. Reed, Woodland Hills, Calif.
3,197,693	NON-DESTRUCTIVE EDDY CURRENT SUBSURFACE TESTING DEVICE PROVIDING COMPENSATION FOR VARIATION IN PROBE-TO-SPECIMEN SPACING AND SURFACE IRREGULARITIES	H. L. Libby, Richland, Wash.
3,198,709	NUCLEAR CONTROL ROD ASSEMBLY WITH IMPROVED DRIVING MECHANISM	J. W. Maccomber, Bay Village, Ohio
3,198,711	THERMOELECTRIC NUCLEAR FUEL ELEMENT	J. O. McFartland, Kennewick, Wash. L. A. Pember, Pasco, Wash. J. A. Christensen, Pittsburgh, Pa.
3,198,856	METHOD OF FABRICATING A COMPOSITE NUCLEAR FUEL CORE ELEMENT	J. P. Hammond, Knoxville, Tenn. and T. D. Watts, Oak Ridge, Tenn.
3,200,046	NEUTRONIC REACTOR STRUCTURE	J. T. Carleton, Richland, Wash.
3,200,491	CLADDING PROCESS	D. E. Walker, Park Forest, Ill. and R. A. Noland, Chicago, Ill.
3,201,082	CORROSION RESISTANT SEALING STRUCTURE	R. Rosen, Elizabeth, N.J.
3,201,191	SEPARATION AND RECOVERY OF URANIUM FROM URANIUM-ALUMINUM ALLOYS	H. S. Gile, Richland, Wash.
3,201,585	MAGNETIC MOMENTUM ANALYZING SLIT WITH CURRENT CONDUCTING STRIPS SECURED TO THE MAGNETIC POLES	J. Ballam and En-Lung Chu, Palo Alto, Calif.
3,201,586	METHOD AND APPARATUS FOR RADIOACTIVE GAS ANALYSIS USING NEUTRONS OF TWO ENERGY LEVELS	E. T. Booth, New York, N.Y.
3,202,465	THRUST BEARINGS	R. C. Rushing, Pittsburgh, Pa.
3,202,475	METHOD FOR COLLECTING ZIRCONIUM TETRACHLORIDE	T. A. Gens, Oak Ridge, Tenn.
3,202,476	USE OF NICKEL ARSENIDES AND NICKEL TO PROMOTE PHASE SEPARATION IN LIQUID-LIQUID EXTRACTION	T. J. Collopy, W. S. Miller, Cincinnati, Ohio and J. H. Mueller, Fort Thomas, Ky.
3,202,479	SEPARATION OF RUTHENIUM FROM AQUEOUS SOLUTIONS	J. J. Katz, Chicago, Ill.
3,202,506	HIGH-TEMPERATURE OXIDATION-RESISTANT COBALT BASE ALLOYS	D. E. Deutsch, Walnut Creek, Calif.
3,202,582	GASEOUS NUCLEAR ROCKET	F. E. Rom, Avon Lake, Ohio
3,202,585	HIGH TEMPERATURE NIOBIUM-UO_2 NUCLEAR FUEL SHEET	H. P. Kling, Baltimore, Md., L. Sama, S. Priceman, Seaford, N.Y., B. Brodwin, Brooklyn, N.Y. and A. Eiss, New Rochelle, N.Y.
3,202,586	METHOD FOR CONTROLLING THE COMPOSITION OF URANIUM CARBIDE AND NUCLEAR FUEL ELEMENT THEREOF	B. A. Webb, Granada Hills, Calif. and N. R. Koenig, Citrus Heights, Calif.
3,202,817	POLYENERGETIC PARTICLE DEFLECTING SYSTEM	R. L. Belbeoch, Paris, France
3,202,821	FILM BADGE SYSTEM AND METHOD OF USING	L. F. Kocher, Richland, Wash.
3,202,90[illegible]	TRANSISTORIZED REGULATED HIGH VOLTAGE SUPPLY	F. M. Glass, Norris, Tenn.
3,202,951	ALLOYS AND ELECTRICAL TRANSDUCERS	A. Krinsky, Bethesda, Md.
3,205,139	HIGH TEMPERATURE REACTOR WITH SPECIFIC DISTRIBUTION OF NON-1/v. ABSORBER AND FERTILE MATERIAL	H. B. Stewart, Rancho Santa, Fe. Calif. and E. J. Leshan, San Diego, Calif.
3,205,141	SIMULATED FUEL ASSEMBLY	J. M. Savino, Berea, Ohio and C. D. Lanzo, Rocky River, Ohio
3,205,149	FUSE DEVICE FOR A NUCLEAR REACTOR	G. V. Brynsvold, San Jose, Calif. and K. Hikido, Campbell, Calif.
3,205,357	SOLID STATE RADIATION DETECTOR	W. F. Lindsay, Santa Barbara, Calif.

3,206,624	HYPERSONIC PLASMA THERMOCOUPLE	T. P. Cotter, Los Alamos, N. Mex.
3,207,796	PREPARATION OF NITROALKYL CHLORIDES	T. M. Benziger and R. K. Rohwer, Los Alamos, N. Mex.
3,208,197	DIFFUSION SEPARATION OF FLUIDS	F. E. Simon, Oxford, England, K. Fuchs and R. E. Peierls, Santa Fe, N. Mex.
3,208,289	ROTARY SHAFT CONSTRUCTION WITH DIAPHRAGM TYPE OF SEAL	E. Hutter, Chicago, Ill. and P. Elias, Bensenville, Ill.
3,208,692	TUG-TOW ARRANGEMENT FOR NUCLEAR AIRCRAFT	S. Bernstein, Oak Ridge, Tenn.
3,208,773	INSULATED TUBE COUPLING	W. E. Boudrie, Fairport, N.Y.
3,208,817	METHOD OF DISSOLVING PLUTONIUM WITH SULFAMIC ACID	W. J. Jenkins, N. Augusta, S.C.
3,208,818	METHOD FOR STABILIZING URANIUM MONOCARBIDE	R. F. Stoops and J. V. Hanna, Raleigh, N.C.
3,208,819	METHOD FOR DECONTAMINATING NUCLEAR FUELS CONTAINING RUTHENIUM COMPLEXES	R. M. Wallace, Aiken, S.C.
3,208,848	ALUMINA-COBALT-GOLD COMPOSITION	R. P. Levey, Oak Ridge, Tenn.
3,208,870	CARBIDE COATINGS FOR GRAPHITE	F. F. Criss, Los Alamos, N.Mex.
3,208,872	CARBIDE COATINGS AND GRAPHITE	C. Wohlberg, and F. F. Criss, Los Alamos, N.Mex.
3,208,883	HYDROGEN-HYDRIDE CELL	C. E. Crouthamel, Glen Ellyn, Ill. and R. R. Heinrich, Downers Grove, Ill.
3,208,912	NUCLEAR REACTOR FUEL MANAGEMENT METHOD	S. Jaye, Solana Beach, Calif. and D. H. Lee, Jr. Del Mar, Calif.
3,208,916	FUEL ELEMENT FOR A NUCLEAR REACTOR	R. J. Hennig and D. T. Aase, Richland, Wash.
3,209,281	METHOD AND APPARATUS FOR DYNAMIC PINCH PULSE MASER PUMPING	S. A. Colgate, Livermore, Calif. and A. W. Trivelpiece, Lafayette, Calif.
3,210,852	UNILINEAR DISPLACEMENT MEASURING APPARATUS	H. V. Herndon, Richland, Wash.
3,211,478	ALUMINUM FOIL ULTRA-HIGH VACUUM GASKET SEAL	T. H. Batzer, Livermore, Calif.
3,211,526	RECOVERY OF SULFURIC ACID FROM AN AQUEOUS SOLUTION CONTAINING METAL VALUES BY EXTRACTION WITH TERTIARY AMINES	D. J. Crouse, Oak Ridge, Tenn.
3,211,602	POLYTRIFLUOROCARBON ADHESIVE COMPRISING AN ALPHA-CARBOXY-METHYLACRYLATE COPOLYMER REACTED WITH AN EPOXY AND A POLY-AMINO-POLYAMIDE RESIN	H. R. Horstman, Los Alamos, N. Mex.
3,211,628	COATED METALLIC-URANIUM ARTICLE AND METHOD OF MAKING	L. D. Eubank, South Euclid, Ohio
3,211,664	URANIUM MONONITRIDE FUEL AND METHOD OF MAKING	R. W. Endebrock, Columbus, Ohio
3,211,812	METHOD OF MAKING NUCLEAR FUEL COMPACT	D. E. Johnson, Cardiff, Calif. and F. H. Lofftus, Del Mar, Calif.
3,211,884	CANNING MACHINE	E. R. Boller, Marion, Ind.
3,211,937	CARBON-COATED ELECTRO-TRANSMISSION WINDOW	R. E. Hester, San Lorenzo, Calif. W. A. Sherwood, Livermore, Calif.
3,212,035	MICROWAVE WAVEGUIDE COUPLING SEAL	K. Skarpaas, Palo Alto, Calif.
3,212,036	ALL-METAL WAVEGUIDE VACUUM GATE VALVE	K. Skarpaas, Palo Alto, Calif.
3,212,940	METHOD FOR PRODUCING P-I-N SEMICONDUCTORS	J. L. Blankenship, Knoxville, Tenn.
3,212,975	METHOD OF CONTROLLING A NUCLEAR REACTOR	J. F. Fletcher, Kennewick, Wash. and K. G. Toyoda, Pasco, Wash.
3,212,982	FAST FUEL TEST REACTOR	E. R. Astley, R. J. Hennig, Richland, Wash. and L. M. Finch, Pasco, Wash.
3,212,986	THREE TANK SEPARATE SUPERHEAT REACTOR	R. T. Pennington, San Jose, Calif.
3,212,987	NEUTRONIC REACTOR WITH INTERLOCKING DIFFUSER END GRID	A. Mason, Birmingham, Mich.

3,212,991	CONTINUOUS SUPPORT FUEL ROD SPACER SYSTEM	G. V. Brynsvold and W. A. Sangster, San Jose, Calif.
3,213,002	ELECTROLYTIC SEPARATION OF PLUTONIUM VALUES FROM URANIUM VALUES	G. E. Benedict, Richland, Wash.
3,213,032	PROCESS FOR SINTERING URANIUM NITRIDE WITH A SINTERING AID DEPRESSANT	J. P. Hammond, Knoxville, Tenn.
3,213,161	PROCESS FOR FORMING A URANIUM MONONITRIDE-URANIUM DIOXIDE NUCLEAR FUEL	R. A. Craig, W. Hartford, Conn.
3,213,162	METHOD OF MAKING NUCLEAR FUEL COMPACT	D. E. Johnson, Cardiff, Calif. and F. H. Lofftus, Del Mar, Calif.
3,213,163	FABRICATION OF SHAPES BY PNEUMATIC IMPACTION	D. W. Brite and K. R. Sump, Richland, Wash.
3,312,379	ABSORPTION OF ENERGY BY ROTATING DISCS IN PARTICLE BEAM DEFLECTOR	R. J. Burleigh, Berkeley, Calif. and R. Peters, Lafayette, Calif.
3,214,833	CERAMIC TO METAL BONDING PROCESS	G. F. Erickson, Los Alamos, N.Mex.
3,215,569	METHOD FOR INCREASING THE CRITICAL CURRENT OF SUPERCONDUCTING ALLOYS	G. D. Kneip, J. O. Betterton, Oak Ridge, Tenn., J. O. Scarbrough and D. S. Easton, Lenoir City, Tenn.
3,215,606	NUCLEAR REACTOR WITH EMERGENCY COOLANT CROSS FLOW	A. G. Silvester, Los Gatos, Calif.
3,215,607	MULTI-REGION NEUTRONIC FUEL ELEMENT	M. Lackey, Oak Ridge, Tenn.
3,215,608	NUCLEAR REACTOR CORE CLAMPING SYSTEM	R. W. Guenther, San Jose, Calif.
3,216,101	RANGE INDICATING SYSTEM	C. W. Roeschke, Albuquerque, N. Mex.
3,216,174	APPARATUS FOR CANNING NUCLEAR REACTOR FUEL ELEMENTS	D. Nicoll, La Jolla, Calif., and J. L. Hedgecock, Encinitas, Calif.
3,216,806	OXIDATION RESISTANT COATINGS ON NIOBIUM	H. Bender, Albertson, N.Y., L. Sama, Seaford, N.Y. and H. P. Kling, Baltimore, Md.
3,216,851	COATING FOR COLUMBIUM	S. Baranov, Euclid, Ohio and R. C. Lever, Anchorage, Ky.
3,216,903	MOUNTING OF FUEL TUBE IN REACTOR SHIELDING	W. L. Bunch, Richland, Wash.
3,217,199	HOMOPOLAR GENERATOR	E. E. Musset, Chicago, Ill.
3,217,322	F. M. RADAR SYSTEM	L. J. Kabell, Albuquerque, N. Mex. and C. W. Roeschke, Palo Alto, Calif.
3,217,471	DIFFUSION BOARD FOR FILTERING HIGH PRESSURE GASES	L. Silverman, Dover, Mass.
3,217,591	ANGLED PLATE SCANNING INTERFEROMETER	W. L. Barr and A. L. Gardner, Livermore, Calif.
3,218,123	RECOVERY OF STRONTIUM VALUES FROM SULFATE-CONTAINING WASTE SOLUTIONS	W. Davis and W. C. Yee, Oak Ridge, Tenn.
3,218,160	REGENERATION OF NUCLEAR FUEL	J. B. Knighton, Joliet, Ill., H. M. Feder, Park Forest, Ill. and R. K. Steunenberg, Naperville, Ill.
3,218,235	METHOD AND APPARATUS FOR PRODUCING A MAGNETICALLY CONFINED HOT DENSE PLASMA	A. W. Ehler, Los Angeles, Calif.
3,218,781	ELECTROSTATIC APPARATUS FOR REMOVAL OF DUST PARTICLES FROM A GAS STREAM	R. T. Allemann, R. L. Moore and U. L. Upson, Richland, Wash.
3,218,845	ULTRASONIC INSPECTION METHOD FOR INACCESSIBLE PIPE AND TUBING	D. Worlton, Richland, Wash.
3,219,408	CHEMICAL DISINTEGRATION AND RECOVERY OF URANIUM FROM SINTERED GRAPHITE URANIUM COMPACTS	M. J. Bradley, Oak Ridge, Tenn. and L. M. Ferris, Knoxville, Tenn.
3,219,441	PROCESS OF PREPARING THORIUM METAL FROM THE OXIDE	J. B. Knighton, Joliet, Ill. and A. V. Hariharan, Bombay, India
3,219,474	PROTECTIVE COATINGS FOR COLUMBIUM AND ITS ALLOYS	S. Priceman and L. Sama, Seaford, N.Y.
3,219,477	OXIDATION RESISTANT COATINGS FOR COLUMBIUM AND COLUMBIUM ALLOYS	J. Grubessich, Astoria, N.Y. and L. Sama, Seaford, N.Y.

3,219,534	PLASMA CONFINEMENT APPARATUS EMPLOYING A HELICAL MAGNETIC FIELD CONFIGURATION	H. P. Furth, Berkeley, Calif.
3,219,535	NUCLEAR REACTOR CONTROL MEANS	T. R. Gibbins, Beltesville, Md.
3,219,541	METHOD OF PREVENTING CARBURIZATION OF FUEL ELEMENT CLADDING METALS BY URANIUM CARBIDE FUELS	B. A. Webb, Granada Hills, Calif.
3,219,736	METHOD FOR PRODUCING HYDROSTATIC PRESSURE	E. A. Stisser, Pleasanton, Calif.
3,219,776	SWITCH ACTUATOR MECHANISM	S. Yerkovich, Los Angeles, Calif.
3,219,825	SOLID STATE DETECTION SYSTEM WITH LOW NOISE AMPLIFICATION	R. H. Graham, Glastonbury, Conn.
3,219,849	FISSION ELECTRIC GENERATOR	W. F. Krieve, Altadena, Calif.
3,221,987	TURBOCIRCULATOR	J. S. Yampolsky, San Diego, Calif.
3,222,030	LEAK VALVE	J. T. Green, Orlando, Fla.
3,222,125	DISSOLUTION OF NUCLEAR ALUMINUM-BASE FUEL	W. W. Schulz, Richland, Wash.
3,222,144	POLYCELLULAR TUBULAR GRID STRUCTURES AND METHOD OF MANUFACTURE	D. E. Davenport, Palo Alto, Calif.
3,222,289	DISSOLUTION OF ZIRCONIUM IN TITANIUM EQUIPMENT	W. E. Clark and T. A. Gens, Oak Ridge, Tenn.
3,222,526	PHOTOSENSITIVE LIGHT BEAM LOCATION INFORMATION DEVICE	J. V. Franck and P. S. Broadhead Lafayette, Calif.
3,222,559	PRODUCTION OF COMPLETELY IONIZED PLASMA	I. Alexeff, Oak Ridge, Tenn. and R. V. Neidigh, Knoxville, Tenn.
3,222,670	DATA PROCESSING	A. Harel, Framingham, Mass.
3,223,598	METHOD OF DETERMINING THE ADHESION OF METAL PLATING	G. F. Jacky, R. Sorenson, D. W. Shannon, Richland, Wash. and W. E. Tragert, Scotia, N.Y.
3,224,615	CRANE DEVICE WITH AN EXTENSIBLE GRIPPER MECHANISM	J. Henry (Deceased)
3,224,665	DIFFUSION PUMP	H. Milleron, Berkeley, Calif. and L. L. Levenson, Livermore, Calif.
3,229,996	DISCONNECTABLE TUBE COUPLING	J. J. Cadwell, San Diego, Calif.
3,230,036	METHOD FOR SEPARATING AMERICIUM AND CURIUM FROM THE LANTHANIDE RARE EARTHS AND YTTRIUM	F. A. Kappelmann and B. S. Weaver, Oak Ridge, Tenn.
3,230,145	APPARATUS FOR MAGNETICALLY CONFINING A PLASMA	H. P. Furth, Berkeley, Calif. and M. N. Rosenbluth, San Diego, Calif.
3,230,146	NUCLEAR REACTOR CORE HAVING MEANS FOR VARYING INCLINATION OF FUEL ASSEMBLIES	E. R. Astley, Richland, Wash. and L. H. Finch, Pasco, Wash.
3,230,147	METHOD AND APPARATUS FOR CONTROLLING REACTIVITY OF NUCLEAR REACTOR	A. J. H. Hitchcock, Dorchester, Dorset, England
3,230,150	METAL-CLAD FUEL ELEMENT WITH COPPER FOIL INTERLAYER	W. R. Martin, and J. R. Weir, Oak Ridge, Tenn.
3,230,151	FUEL ELEMENT FOR A NUCLEAR REACTOR	L. E. Mills, Normal, Ill, J. J. Hauth, C. H. Bloomster and D. F. Carroll, Richland, Wash.
3,230,152	COMPARTMENTED NUCLEAR REACTOR FUEL ROD AND METHOD OF MAKING	F. Kerze, Bethesda, Md.
3,230,364	SURFACE AREA MEASUREMENTS	J. T. Clarke, Stony Brook, N.Y.
3,230,369	RADIATION DOSIMETER SYSTEM USING CADMIUM-BACKED COPPER FOIL	L. J. Carr, R. D. Hiebert, E. R. Ballinger, Los Alamos, N. Mex., P. S. Harris and J. H. Larkins, Santa Fe, N.Mex.
3,230,372	NUCLEAR RADIATION DETECTOR WITH CONTROL GRID	H. P. Spracklen, Castro Valley, Calif.
3,230,374	RADIOACTIVE RADIATION EMITTING SOURCES	L. V. Jones, Miamisburg, Ohio, P. A. Tucker and L. J. Wittenberg, Dayton, Ohio
3,230,418	DEVICE HAVING HIGH-GRADIENT MAGNETIC CUSP GEOMETRY	R. A. Dandl, Oak Ridge, Tenn. and R. J. Kerr, Knoxville, Tenn.
3,234,780	TEMPERATURE COMPENSATED CONDENSATION PRESSURE ANALYZER	W. S. Pappas, Oak Ridge, Tenn.
3,237,821	GLOVE CHANGING APPARATUS AND METHOD	R. E. Hayne and J. B. Owen, Boulder, Colo.

3,238,014	RECOVERY OF URANIUM AND PLUTONIUM VALUES FROM AQUEOUS SOLUTIONS OF AMMONIUM FLUORIDE	T. A. Gens, Oak Ridge, Tenn.
3,239,105	FUEL ELEMENT ASSEMBLY FOR A NUCLEAR REACTOR	M. J. McNelly, San Jose, Calif.
3,238,288	HIGH TEMPERATURE FURNACE	J. C. McGuire, White Rock, N.Mex. and D. D. Bowdish, Espanola, N. Mex.
3,238,321	EXPLOSIVE ACTUATED SWITCH IN WHICH CONTACT PIERCES NON - CONDUCTOR	R. C. Lawvill and H. L. Anderson, Albuquerque, N.Mex.
3,238,370	AUTOMATIC CORRECTION OF NUCLEAR INSTRUMENT TO COMPENSATE FOR NEUTRON ATTENUATION	J. V. Leeds, Pittsburgh, Pa.
3,238,406	RUGGEDIZED PHOTOIODIDE TUBE WITH SEMICYLINDRICAL CATHODE AND ANODE OF ELONGATED CROSS-SECTION	A. L. Grelich, Livermore, Calif. and M. R. McCraven, Palo Alto, Calif.
3,238,414	HIGH OUTPUT DUOPLASMATRON-TYPE ION SOURCE	G. G. Kelley, Kingston, Tenn. and O. B. Morgan, Oak Ridge, Tenn.
3,238,437	REGENERATION OF EMF CELLS HAVING MOLTEN METAL ELECTRODES AND A FUSED SALT ELECTROLYTE	M. S. Foster, Naperville, Ill. and C. E. Crouthamel, Glen Ellyn, Ill.
3,238,453	APPARATUS FOR MEASURING THE DIELECTRIC CONSTANT OF OIL UTILIZING AN ACTIVE FILTER COUPLED TO A TUNED OSCILLATOR	J. J. Henry, R. W. Johnson and J. B. Mankin, Oak Ridge, Tenn.
3,238,574	SEAL	T. H. Fields, Evanston, Ill., K. B. Martin, Joliet, Ill., E. G. Fewitt, Hinsdale, Ill. and J. G. Petkovich, Oakmont, Pa.
3,238,797	SLIP CAM ARRANGEMENT	K. D. Coughren, Richland, Wash.
3,239,334	COLUMBIUM BRAZING ALLOY	C. A. Javorsky, Los Alamos, N. Mex. and J. S. Howe, Albany, Ore.
3,239,335	DUCTILE BINARY CHROMIUM ALLOY	O. N. Carlson, F. A. Schmidt and L. L. Sherwood, Ames, Iowa
3,239,667	METHOD FOR DETERMINING THE NEUTRON FLUX ABOVE THE U-238 THRESHOLD ENERGY LEVEL	E. Roberts, Rockwood, Tenn. and J. W. Wachter, Oak Ridge, Tenn.
3,239,751	HIGH VOLTAGE RESISTOR ASSEMBLY HAVING IMPROVED CORONA SHIELDING	T. W. Sibary, Orinda, Calif.
3,241,188	PRESSURE INTENSIFIER	P. P. Febbo, R. P. Levey, and H. A. Pohto, Oak Ridge, Tenn.
3,241,230	DIFFUSION BONDING OF TUNGSTEN TO TUNGSTEN	E. I. Batista, G. S. Hanks, Los Alamos, N.Mex. and D. J. Murphy, Tucson, Ariz.
3,241,955	HIGHLY DENSIFIED AND MACHINABLE TUNGSTEN-IRON-NICKEL ALLOY	A. C. Neeley, Oak Ridge, Tenn.
3,242,863	EXPLOSIVE LINE WAVE GENERATOR	D. H. Gipson, Pleasant Hill, Calif.
3,243,105	SYSTEM FOR SEPARATING PARTICULATE SUBSTANCES BY REORIENTING GRADIENTS	N. G. Anderson, Oak Ridge, Tenn.
3,243,254	METHOD FOR EXTRACTING LANTHANIDES AND ACTINIDES	T. H. Siddall, Aiken, S.C.
3,243,257	RECOVERY OF URANIUM AND ZIRCONIUM FROM AQUEOUS FLUORIDE SOLUTIONS	C. F. Coleman, Oak Ridge, Tenn.
3,243,280	METHOD OF REMOVING HYDROGEN FROM LIQUID ALKALI METALS	E. G. Bohlmann, Concord, Tenn. and E. L. Compere, Knoxville, Tenn.
3,243,349	CARBON-COATED METAL CARBIDE PARTICLES FOR NUCLEAR REACTOR USE	W. V. Goeddel, Poway, Calif.
3,243,350	CLAD ALLOY FUEL ELEMENTS	B. Lustman and R. K. McGeary, Pittsburgh, Pa.
3,243,351	STEAM PRODUCING REACTOR AND FUEL THEREFOR	K. W. Campbell, D. H. Imhoff, R. T. Pennington and J. M. Roberts, San Jose, Calif.
3,243,493	METHOD AND APPARATUS FOR INDUCTION MELTING	R. F. Bunshah, Livermore, Calif. and R. S. Juntz, Hayward, Calif.
3,243,590	THERMOLUMINISCENT RADIATION DOSIMETER AND INTEGRAL HEATER	A. H. Forsman, Danville, Calif., J. R. Gaskill, Livermore, Calif., W. A. Phillips and R. D. Taylor, Walnut Creek, Calif.
3,243,613	PANCAKE REACTOR	G. M. Grover, Los Alamos, N.Mex.

3,243,715	TWO-GAS MASER OF IMPROVED EFFICIENCY AND POWER LEVEL	T. A. Welton, Oak Ridge, Tenn.
3,245,114	POWDER ROLLING OF TUNGSTEN AND ITS ALLOYS	T. J. Ready, H. D. Lewis, Los Alamos, N.Mex. and J. E. Hockett, Espanola, New Mex.
3,245,118	ELECTRICAL LEAD-THROUGH FOR PRESSURE INTENSIFIER	A. E. Smith, Clinton, Tenn.
3,245,119	ELECTRICAL LEAD-THROUGH FOR PRESSURE INTENSIFIER	R. L. Huddleston, Knoxville, Tenn.
3,245,120	ELECTRICAL LEAD-THROUGH FOR PRESSURE INTENSIFIER	R. P. Levey, Oak Ridge, Tenn.
3,245,268	WATER SAMPLER	P. B. Archibald, Pleasanton, Calif.
3,246,153	CALORIMETER CAPABLE OF SEPARATELY DETERMINING NEUTRON ENERGY ABSORPTION AND GAMMA ENERGY ABSORPTION	W. B. Lewis, Idaho Falls, Idaho
3,246,196	METHOD AND MEANS FOR IMPROVING THE ELECTRON EMISSION FROM A REFRACTORY CONDUCTING MATERIAL	R. L. Aamodt, Santa Fe, N.Mex., L. J. Brown and B. D. Nichols, Los Alamos, N.Mex.
3,246,272	POTTED ELECTRICAL COIL AND HAIR-LIKE LEAD WIRE ASSEMBLY	T. A. Wiley, Overland Park, Kan.
3,249,395	GAS-SOLIDS REACTION SYSTEM	R. P. Levey, Oak Ridge, Tenn.
3,249,429	TANTALUM BRAZING ALLOY	C. E. Armantrout, Corvallis, Ore., J. S. Howe, Albany, Ore. and C. A. Javorsky, Los Alamos, N.Mex.
3,249,509	NUCLEAR FUEL PARTICLES COATED WITH MIXTURE OF PYROLYTIC CARBON AND SILICON CARBIDE	J. M. Blocher, Columbus, Ohio
3,249,800	FAST ACTING SWITCH UTILIZING A VAPORIZABLE WIRE	M. J. Huber, Weehawken, N.J.
3,250,590	PREPARATION OF ACTINIDE MONOCARBIDE	Z. J. Petkus, Chicago, Ill. and A. D. Tevebaugh, Hinsdale, Ill.
3,250,842	ELECTRON BEAM ZONE REFINING	T. Hikido, Sunnyvale, Calif.
3,251,337	SPIRAL FLUIDIZED BED DEVICE AND METHOD FOR COATING PARTICLES	R. E. Latta, Painesville, Ohio and E. S. Funston, Fairfield, Ohio
3,251,645	METHOD FOR PROCESSING ALUMINUM-CONTAINING NUCLEAR FUELS	C. E. Guthrie, Oak Ridge, Tenn.
3,252,046	NANOSECOND PULSE LIGHT SOURCE	Q. A. Kerns, Orinda, Calif., G. C. Cox, Walnut Creek, Calif., T. G. Innes, Fullerton, Calif. and W. S. Flood, Pleasant Hill, Calif.
3,252,271	PARTICLE FILTER	L. P. Hatch, Brookhaven, N.Y., J. J. Reilly, Bellport, N.Y. and S. J. Wachtel, Rocky Point, N.Y.
3,252,867	LONG LIFETIME NUCLEAR REACTOR	C. H. Conley, Pittsburgh, Pa.
3,255,086	NUCLEAR REACTOR CONTROL SYSTEM	A. J. M. Hitchcock, Lymm, England
3,257,284	METHOD OF CONTROLLING PLASMA STABILITY	R. F. Post, Walnut Creek, Calif.
3,257,560	NEUTRON COLLIMATOR WITH SURFACE COATINGS TO SUPPRESS NEUTRON REFLECTOR	I. R. Jones, Livermore, Calif.
3,257,571	POWER GENERATOR	C. B. Jones, Canoga Park, Calif.
3,257,577	PHASING OF MULTISECTION LINEAR ACCELERATORS BY ALTERNATELY TURNING ON AND OFF APPROPRIATE ELECTROMAGNETIC DRIVERS	G. A. Loew, Palo Alto, Calif.
3,257,688	METAL SHAPES HAVING INCREASED COMPRESSIVE STRENGTHS	R. P. Levey, Oak Ridge, Tenn.
3,258,315	MONOALKYL PHOSPHORIC ACID EXTRACTION OF CESIUM AND STRONTIUM VALUES	J. M. Schmitt, Oak Ridge, Tenn.
3,258,429	DECONTAMINATION SOLUTION AND METHOD	R. D. Weed, Richland, Wash.
3,258,467	EXTRACTION AND PURIFICATION OF CHLOROPHYLL	A. F. H. Anderson, and M. Calvin, Berkeley, Calif.
3,258,728	ELECTRICAL COIL AND LEAD WIRE ASSEMBLY	J. A. Peters, T. A. Wiley, Overland Park, Mo. and J. H. Lynch, Garden City, Mo.
3,259,470	APPARATUS FOR MANUFACTURING SHAPES OF URANIUM CARBIDE	F. Hofmann, Upper Bavaria, Germany and L. Schafer, Klein Auheim, Germany

3,259,473	DISSOLUTION OF PLUTONIUM	H. H. Hopkins, R. S. Kingsley, Richland, Wash. and E. L. Conner, Yakima, Wash.
3,259,745	BORON-12 BETA DECAY NEUTRON DETECTOR	G. F. Garlick, Kennewick, Wash. and W. L. Bunch, Richland, Wash.
3,259,766	THERMIONIC NUCLEAR REACTOR	E. S. Beckjord, Pittsburgh, Pa. F. J. Fellows and R. R. Hobson, San Jose, Calif.
3,260,381	APPARATUS AND METHOD FOR TRANSFERRING OBJECTS INTO A CONDITIONED ATMOSPHERE	R. N. Wagner and G. K. Ford, Knoxville, Tenn.
3,260,466	FISSILE FUEL RECOVERY PROCESS	J. I. Wagner, Huntington, N.Y., R. M. Singer, D. G.Schweitzer, East Islip, N.Y. and H. M. Katz, Port Jefferson, N.Y.
3,260,574	PYROLYTIC CARBON DECLADDING	L. P. Hatch, Brookhaven, N.Y., J. J. Reilly, Bellport, N.Y. and E. Wirsing, Hattituck, N.Y.
3,260,575	SINGLE STEP PROCESS FOR PREPARATION OF URANIUM DIOXIDE FROM URANIUM HEXA-FLUORIDE	R. L. Heestand and C. F. Leitten, Oak Ridge, Tenn.
3,260,649	NUCLEAR REACTORS	J. B. Nims, Royal Oak, Mich., R. S. Miller, Brookfield, Wis. R. G. Palmer, Idaho Falls, Idaho, W. H. Jens, Grosse Point, Mich., M. C. Edlund, Lynchburg, Va., H. S. Barringer, Rustburg, Va., J. K. Davidson and C. E. Klotz, Silver Spring, Md.
3,260,650	REFLECTOR AND COOLANT SEALING STRUCTURE FOR GAS COOLED NUCLEAR REACTOR	W. A. Kalk, Poway, Calif. and J. F. Petersen, San Diego, Calif.
3,260,844	CALUTRON WITH MEANS FOR REDUCING LOW FREQUENCY RADIO FREQUENCY SIGNALS IN AN ION BEAM	E. D. Shipley, Knoxville, Tenn., O. C. Yonts and A. M. Veach, Oak Ridge, Tenn.
3,260,869	METHOD FOR REVERSIBLY EXTRACTING ENERGY FROM A PLASMA BY MAGNETIC PUMPING	L. S. Hall, Livermore, Calif.
3,261,199	ISOKINETIC SAMPLING APPARATUS	G. S. Raynor, Manorville, N.Y.
3,261,378	METHOD AND APPARATUS FOR VIBRATORY COMPACTION	J. E. Ayer, Joliet, Ill., and F. E. Soppet, Calumet Park, Ill.
3,261,483	ADAPTER VALVE	P. T. Calabretta, Port Chester, N.Y.
3,261,747	STABILIZED IODINE LABELED 2'-DEOXY-5-IODOURIDINE	S. L. Commerford, Shirley, N.Y.
3,261,756	EMBOSSED CLADDING FUEL ELEMENT AND MANUFACTURING PROCESS THEREFOR	C. C. Ripley, San Jose, Calif.
3,261,757	NUCLEAR FUEL ELEMENT	M. Steinberg, Huntington Station, N.Y., G. Farber, Elmont, N.Y. and D. H. Gurinsky, Center Moriches, N.Y.
3,261,760	QUICK OPENING LATCH AND ANTI-VIBRATION LOCK FOR NUCLEAR REACTOR SAFETY ROD	R. E. Manoll, Idaho Falls, Idaho
3,262,280	LEVEL CONTROL FOR CRYOGENIC LIQUID	R. L. Chaney, San Leandro, Calif.
3,262,756	METHOD FOR ANALYZING INERT GAS FOR PRESENCE OF OXYGEN OR WATER VAPOR	G. W. Keilholtz, Knoxville, Tenn. and C. C. Webster, Oak Ridge, Tenn.
3,262,760	METHOD OF PREPARING HIGH DENSITY, COMPACTIBLE URANIUM DIOXIDE PARTICLES	L. E. Morse, Oak Ridge, Tenn., K. H. McCorkle, Powell, Tenn. and C. E. Schilling, Knoxville, Tenn.
3,262,856	FUSED-SALT-FUELED, MOLTEN METAL-COOLED POWER BREEDER REACTOR SYSTEM	E. S. Bettis, Knoxville, Tenn.
3,262,859	ORDERED BED NUCLEAR FUEL ASSEMBLIES	W. E. Winsche, Bellport, N.Y.
3,262,885	FISSION-PRODUCTS-CONTAINING COMPOSITION AND PROCESS OF MAKING	P. R. Rushbrook, Richland, Wash.
3,263,004	PROCESS OF MAKING A SINTERED, HOMOGENEOUS DISPERSION OF NUCLEAR FUEL AND BURNABLE POISON	C. H. Bean, Naperville, Ill.
3,263,136	HIGH ENERGY ACCELERATOR MAGNET STRUCTURE	H. S. Gordon, Orinda, Calif.
3,263,145	HIGH CURRENT REVERSING SWITCH	W. L. Dexter, Orinda, Calif.

3,264,070	REMOVAL OF ACTINIDE HALIDES FROM ALUMINA	D. Ramaswami, Westmont, Ill., H. M. Levitz, Bellwood, Ill., and A. A. Jonke, Elmhurst, Ill.
3,264,073	NOVEL METAL MICROSPHERES AND THEIR MANUFACTURE	C. R. Schmitt, Oak Ridge, Tenn.
3,264,189	POOL-TYPE NUCLEAR REACTOR WITH IMPROVED LIQUID SHIELD ARRANGEMENT	J. J. Reginbal, Richland, Wash.
3,264,192	MULTI-SECTION CONTROL ROD WITH THERMAL EXPANSION JOINT	E. A. Wiswall, Downers Grove, Ill.
3,264,223	URANIUM MONOSULFIDE-URANIUM-MONOPHOSPHIDE SOLID SOLUTIONS	Y. Baskin, Chicago, Ill. and F. D. Shalek, Champaign, Ill.
3,264,379	METHOD OF ROUNDING ACTINIDE OXIDE GEL PARTICLES	R. L. Hamner, Oak Ridge, Tenn. and W. H. Smith, Knoxville, Tenn.
3,264,568	ELECTRON LINEAR ACCELERATOR PHASING METHOD INVOLVING ALTERNATELY TURNING ON AND TURNING OFF THE ELECTROMAGNETIC DRIVER OF THE SECTION BEING PHASED	D. J. Goerz, Belmont, Calif. R. B. Neal, Menlo Park, Calif. K. B. Mallory, Palo Alto, Calif.
3,264,871	MAGNETIC RECORDING READOUT FOR FLOWMETER	J. C. Beynon, North Hollywood, Calif.
3,264,912	PRECISION LATHES	V. M. Hovis, Kingston, Tenn. and E. E. Palmer, Knoxville, Tenn.
3,265,152	UNDERWATER BEACON	I. E. Kass, Baltimore, Md.
3,265,583	APPARATUS FOR PRODUCING AND PURIFYING PLASMA	W. R. Baker, Orinda, Calif. and K. Halbach, Berkeley, Calif.
3,265,602	METHOD OF PRODUCING HYDRAZINE	M. Steinberg, Huntington Station, N.Y., J. Prugansky, East Islip, N.Y. and H. Kramer, Bayside, N.Y.
3,265,627	ADDITION OF LITHIUM VALUES IN CONVERSION OF FISSION-PRODUCT WASTES TO A GLASS-LIKE SOLID FOR DISPOSAL	W. E. Clark, Oak Ridge, Tenn. C. L. Fitzgerald and G. D. Davis, Kingston, Tenn.
3,265,967	MICROWAVE PLASMA DENSITY MEASUREMENT SYSTEM	H. A. Heald, Swarthmore, Pa.
3,265,998	COMPACT HIGH VOLTAGE TRANSFORMER HAVING MORE UNIFORM EQUIPOTENTIAL LINE SPACING	C. W. Park, Oakland, Calif.
3,266,095	PRESSURE VESSEL SEAL	R. L. Huddleston, Knoxville, Tenn. and R. P. Levey, Oak Ridge, Tenn.
3,266,790	CUSHIONING MEDIA	R. G. Bradeen, Castro Valley, Calif.
3,266,928	OXIDATION-RESISTANT COATING ON ARTICLES OF YTTRIUM METAL	D. R. Wilder, and C. D. Wirkus, Ames, Iowa
3,266,948	CARBIDE DEPOSITION ON TANTALUM	J. C. McGuire, White Rock, N.Mex.
3,266,998	DOPPLER COEFFICIENT CONTROL FOR NUCLEAR REACTORS OPERATING IN THE FAST OR INTERMEDIATE NEUTRON ENERGY SPECTRUM	P. Greebler, San Jose, Calif.
3,266,999	GAS-COOLED, WATER MODERATED NEUTRONIC REACTOR	R. E. Wood, Idaho Falls, Idaho and W. E. Nicouth, Loveland, Ohio
3,267,001	MODERATOR REFLECTOR FAST NEUTRON REACTOR CORE	P. Greebler, San Jose, Calif.
3,267,002	METHOD FOR CONTROLLING A NUCLEAR REACTOR	L. W. Proma, Glen Ellyn, Ill. and C. N. Kelber, Wheaton, Ill.
3,267,134	GLYCOL ESTERS OF DIFLUORONITROACETIC ACID	E. R. Bissell, Alamo, Calif.
3,267,307	MAGNETICALLY CHANNELED PLASMA DIODE HEAT CONVERTER	R. Fox, Rehovot, Israel
3,267,406	NON-INDUCTIVE ELECTRIC RESISTOR	R. L. Davis, Albuquerque, N.Mex.
3,267,672	GAS GENERATING DEVICE WITH INITIATOR INSULATING MEANS	J. R. Craig and D. J. Sasmor, Albuquerque, N.Mex.
3,268,303	REMOVAL OF STAINLESS-STEEL CLADDINGS FROM NUCLEAR FUEL ELEMENTS	D. Ramaswami, Westmont, Ill, and H. M. Levitz, Bellwood, Ill.
3,268,410	RADIATION REACTOR	L. D. P. King, Santa Fe, N.Mex.
3,268,758	HOLLOW GAS ARC DISCHARGE DEVICE UTILIZING AN OFF-CENTER CATHODE	J. W. Flowers, Gainesville, Fla.

3,268,976	BROACH FOR CURVED GRAPHITE PASSAGES	E. Hollister (deceased)
3,269,458	METHOD AND APPARATUS FOR ACCURATE AND CONTROLLED COOLING	G. C. Rogers, Los Altos, Calif.
3,269,232	SYSTEM FOR COORDINATING THE OPERATIONS OF A TOOL WITH A PATTERN	V. M. Hovis, Kingston, Tenn.
3,269,536	MOVING WALL ELUTRIATOR	A. K. Postma, Corvallis, Ore.
3,270,098	METHOD OF MAKING HOLLOW, SPHERICAL UO_2 PARTICLES	H. N. Barr and L. A. Sundquist, Baltimore, Md.
3,270,287	TIME-SPACED MULTIPLE PULSE GENERATOR	L. W. Ducote, Castro Valley, Calif.
3,270,828	HYDRAULICALLY ACTUATED LOAD CARRYING APPARATUS	R. J. McCracken, Port Jefferson, N.Y.
3,271,133	PURIFICATION OF MOLTEN SALTS	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,271,142	METHOD FOR FORMULATING MASTER ALLOY COMPOSITIONS FOR USE IN DISPERSION HARDENED COMPACTS	J. P. Hammond, Knoxville, Tenn. and K. K. Sinha, Bombay, India.
3,271,260	LIQUID METAL FAST BREEDER REACTOR	L. C. Noderer, Windsor, Conn.
3,271,264	NEUTRONIC REACTOR WITH IMPROVED RELEASE MECHANISM BETWEEN CONTROL ROD AND ASSOCIATED DRIVE	P. Fortescue, La Jolla, Calif. and D. Nicoll, Del Mar, Calif.
3,271,320	POLONIUM RECOVERY	R. H. Moore, Kennewick, Wash.
3,271,966	CRYOSTATS	F. J. Webb, Berkshire, England
3,272,601	PREPARATION OF BINARY COMPOUNDS OF URANIUM AND THORIUM	W. N. Hansen, Thousand Oaks, Calif.
3,272,658	RADIOISOTOPE HEATED THERMOELECTRIC GENERATOR POWER FLATTENING SYSTEM	R. E. Rush, Livingston, N.J.
3,272,668	SEMICONDUCTOR DETECTOR METHOD	G. L. Miller, Babylon, N.Y. and S. E. Wagner, Brookhaven, N.Y.
3,272,738	PROCESS FOR THE REMOVAL OF METAL CORROSION PRODUCTS FROM A SOLUTION OF HYDRAZINE AND ETHYLENEDIAMINETETRAACETIC ACID	E. C. Pitzer, G. R. Fountain, Scotia, N.Y. and J. R. Ciaranello, De Witt, N.Y.
3,272,756	RADIOACTIVE WASTE DISPOSAL USING COLEMANITE	J. D. Kaser, Richland, Wash.
3,272,983	ION-PRODUCING MECHANISMS FOR CALUTRONS	A. M. Veach and O. C. Yonts, Oak Ridge, Tenn.
3,273,323	LAMINAR FLOW AIR HOOD APPARATUS	W. J. Whitfield, Albuquerque, N.Mex.
3,273,557	VACUUM FURNACE WINDOW	M. R. Borch, Livermore, Calif. and R. S. Juntz, Hayward, Calif.
3,273,973	METHOD FOR PROCESSING ALUMINUM-CONTAINING NUCLEAR FUELS	R. E. Thoma, M. R. Bennett and J. W. Ullmann, Oak Ridge, Tenn.
3,273,974	FLUIDIZATION OF SINTERABLE FINES	J. D. Gabor, Western Springs, Ill. and M. G. Baerns, Hanover, Germany
3,274,030	PHOTOCELL WITH COOLING MEANS AND METHOD OF USING SAME	R. E. Salomon, North Hills, Pa.
3,274,066	UNPURGED FUEL ELEMENT	L. R. Zumwalt, San Diego, Calif.
3,274,067	FUEL ROD DESIGN	P. Greebler, K. M. Horst, E. E. Olich and B. Wolfe, San Jose, Calif.
3,274,068	FUEL ELEMENT	S. L. Koutz and R. F. Turner, San Diego, Calif.
3,274,770	METHOD AND SYSTEM FOR SUPPLYING THRUST TO A SPACE VEHICLE	J. C. Carter, Elmhurst, Ill. and M. B. Rodin, Park Forest, Ill.
3,275,421	RECOVERY OF ACTINIDE FROM HALITE DEBRIS	D. G. Karraker, W. C. Perkins, Aiken, S.C.
3,275,422	CONTINUOUS-GAS-PHASE VOLATILITY PROCESS	G. I. Cathers, Knoxville, Tenn. and J. C. Mailen, Oak Ridge, Tenn.
3,275,480	METHOD FOR INCREASING THE CRITICAL CURRENT DENSITY OF HARD SUPERCONDUCTING ALLOYS AND THE IMPROVED PRODUCTS THEREOF	J. O. Betterton, Oak Ridge, Tenn., G. D. Kneip, Concord, Mass., D. S. Easton and J. O. Scarbrough, Lenoir City, Tenn.
3,275,525	NUCLEAR FUEL ELEMENT INCORPORATING HELICAL FISSIONABLE WIRE	C. H. Bloomster and J. J. Hauth, Richland, Wash.

3,275,534	METHOD OF PREPARING URANIUM FOR NICKEL PLATING	J. R. Lundquist and R. W. Stromatt, Richland, Wash.
3,275,737	COAXIAL CABLE TERMINATING MEANS	J. M. Caller, Albuquerque, N.Mex.
3,275,916	HIGH Q POWER CAPACITOR	J. A. Phillips and A. E. Schofield, Los Alamos, N.Mex.
3,276,849	METHOD FOR SEPARATING MEMBERS OF ACTINIDE AND LANTHANIDE GROUPS	F. L. Moore, Knoxville, Tenn.
3,276,850	METHOD OF SELECTIVELY REDUCING PLUTONIUM VALUES	R. H. Rainey, Knoxville, Tenn.
3,276,861	CALIFORNIUM AND EINSTEINIUM SEPARATION	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,276,867	CERMET MATERIALS AND PROCESS OF MAKING	D. W. Brite and K. R. Sump, Richland, Wash.
3,276,969	DEVICE FOR MONITORING SHUTDOWN NUCLEAR REACTORS	E. F. Antal, S. J. Ostrom, Kennewick, Wash., C. D. Brons, and F. B. Quinlan, Richland, Wash.
3,277,301	RADIOACTIVITY SMEAR SAMPLING METHOD AND APPARATUS USING DATA PROCESSING CARDS	J. S. Hurst, Knoxville, Tenn., W. A. Pfeiler, Norris, Tenn., M. Sanders and E. F. Gammon, Knoxville, Tenn.
3,277,326	ELECTRON GUN AND SOCKET STRUCTURE	C. Grimm and F. G. Hammersand, E. Petersburg, Pa.
3,277,565	METHOD OF CLADDING YTTRIUM HYDRIDE AND YTTRIUM BASE ALLOY HYDRIDES	K. M. Bohlander, West Chester, Ohio, E. S. Funston, Hamilton, Ohio and J. A. McGurty, Cincinnati, Ohio
3,277,607	FIXATION OF RADIOACTIVE CONTAMINATION IN SOIL	R. Overstreet, Berkeley, Calif.
3,277,766	EXPLOSIVELY RELEASABLE BOLT	F. B. Burkdoll, Sunnyvale, Calif.
3,278,278	PYROHYDROLYSIS OF CARBIDE-TYPE NUCLEAR FUEL	J. R. Flanary, Knoxville, Tenn., J. H. Goode, Sweetwater, Tenn. and G. C. Wall, Sydney, Australia
3,278,384	NEGATIVE "V" STELLARATOR	A. Lenard, Trenton, N.J., R. M. Kulsrud, J. L. Johnson and I. B. Bernstein, Princeton, N.J.
3,278,386	DELAY BED SYSTEM FOR PURIFICATION OF NUCLEAR FUEL ELEMENT PURGE STREAM	J. E. French, Escondido, Calif., K. G. Steyer and G. L. Wessman, San Diego, Calif.
3,278,387	FUEL RECYCLE SYSTEM IN A MOLTEN SALT REACTOR	L. E. McNeese and C. D. Scott, Oak Ridge, Tenn.
3,278,454	INHIBITION OF GRAIN GROWTH IN SINTERED BERYLLIUM OXIDE BODIES	P. P. Turner and H. C. Brassfield, Cincinnati, Ohio
3,278,745	RADIO-FREQUENCY PARTICLE SEPARATOR	G. A. Loew, PaloAlto, Calif.
3,278,752	WIDE ANGLE OPTICAL SYSTEM HAVING A TELECENTRIC STOP AND AN INTERFERENCE FILTER	B. B. Brixner, Los Alamos, N. Mex.
3,278,769	METHOD OF TEMPERATURE CYCLING FERROELECTRIC CERAMICS THROUGH A TEMPERATURE RANGE BELOW THE CURIE POINT THEREOF	H. M. Graham and P. L. Phelps, Livermore, Calif.
3,278,892	ACOUSTIC SPARK CHAMBER	F. A. Kirsten, Lafayette, Calif. and B. C. Maglic, Geneva, Switzerland
3,279,898	METHOD OF PREPARING PLUTONIUM MONONITRIDE	J. A. Leary and R. L. Nance, Los Alamos, N.Mex.
3,279,917	HIGH TEMPERATURE ISOSTATIC PRESSING	A. H. Ballard and R. Hendricks, Oak Ridge, Tenn.
3,280,002	SEAL FOR A CONTROL ROD APPARATUS	E. Hutter, Chicago, Ill. and T. E. Sullivan, Evergreen Park, Ill.
3,281,324	THERMAL EXPANSION IMPULSE ACTUATOR IN PLASMA JET APPARATUS	I. Henins and J. Marshall, Los Alamos, New Mex.
3,281,325	MINIMIZING THE EFFECTS OF FLUX GRADIENT IN A REACTOR	R. J. Hennig, Richland, Wash.
3,281,328	NUCLEAR FUEL ROD ASSEMBLY	V. E. Hazel, San Jose, Calif. and J. J. Zeller, Los Angles, Calif.
3,281,338	METHOD FOR PRODUCING ULTRA-HIGH PURITY PLUTONIUM METAL	J. A. Leary and L. J. Mullins, Los Alamos, N.Mex.
3,281,661	NUCLEAR SPIN COOLING METHOD	C. D. Jeffries, Berekeley, Calif.
3,282,276	HIGH VACUUM VALVES	J. T. Mark, Lancaster, Pa.
3,282,655	PRODUCTION OF ^{131}I	F. N. Case and E. H. Acree, Oak Ridge, Tenn.

3,282,656	PREPARATION OF PLUTONIUM MONOSULFIDE AND PLUTONIUM MONOPHOSPHIDE	O. L. Kruger, Westmont, Ill. J. B. Moser, Evanston, Ill. and B. J. Wrona, Joliet, Ill.
3,282,681	SEPARATION OF URANIUM AND PLUTONIUM VALUES	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,282,793	APPARATUS FOR CONTROLLING THE ATMOSPHERE OVER A NUCLEAR REACTOR	A. R. Jamrog, Chicago, Ill.
3,282,806	ELECTROREFINING OF PLUTONIUM	J. L. Long, and R. D. Schweikhardt, Arvada, Colo.
3,283,479	COMBINATION TRAP PUMP	T. H. Batzer and R. H. McFarland, Livermore, Calif.
3,284,173	PREPARATION OF PLUTONIUM HEXAFLUORIDE	J. Fischer, Lisle, Ill.
3,284,190	SEPARATION OF URANIUM FROM NOBLE AND REFRACTORY METALS	J. B. Knighton, Joliet, Ill. and R. K. Steunenberg, Naperville, Ill.
3,284,195	METHOD OF FABRICATING ARTICLES FROM POWDERS	J. M. Googin and L. M. McLaughlin, Oak Ridge, Tenn.
3,284,305	PROCESSES OF PRODUCING ENERGY BY NUCLEAR FISSION	H. C. Urey, Chicago, Ill. (Rights to AEC), K. Cohen, New York, N.Y. and F. T. Barr, Summit, N.J. (Rights to Esso Research Eng. Co.)
3,284,309	NUCLEAR POWER GENERATING APPARATUS	E. V. Murphree, Summit, N.J.
3,284,550	ULTRAHIGH PURITY CARBIDE FORMATION	R. E. Riley and K. V. Davidson, Los Alamos, N.Mex.
3,284,642	PULSE TIME DELAY CIRCUIT EMPLOYING TUNNEL DIODE AND SWITCH COMBINATION GATED IN RESPONSE TO RAMP INPUT	Q. A. Kerns, Orinda, Calif., M. Birk, Rehovoth, Israel, and T. A. Nunamaker, San Pablo, Calif.
3,284,686	METHOD OF DISCHARGING A CLOUD	H. Moses, Park Forest, Ill. and R. L. Martin, LaGrange, Ill.
3,284,744	QUADRUPOLE MAGNET WITH REDUCED LATERAL DIMENSION	G. T. Danby, Wading River, N.Y. and J. W. Jackson, Medford, N.Y.
3,285,821	NUCLEAR FUEL MODULE	J. E. Brubaker, Pittsburgh, Pa.
3,285,826	FUEL ELEMENT CONTAINING A MECHANICALLY COMPRESSIBLE MANDRIL	J. E. Lang, L. G. Wisnyi, Schenectady, N.Y. and R. A. Proebstle, Scotia, N.Y.
3,286,152	MULTIPLE BATTERY CHARGING AND DISCHARGING CIRCUIT MEANS	J. B. Noe, Albuquerque, N.Mex.
3,286,820	TITANIUM PRIMER FOR A VACUUM PUMP	E. C. Hurst, Stoughton, Wis.
3,287,084	PROCESS FOR SEPARATING STRONTIUM VALUES FROM RARE EARTH METAL VALUES	H. H. VanTuyl, Richland, Wash.
3,287,093	NUCLEAR REACTOR FUEL MATERIAL AND A METHOD OF PREPARING THE SAME	P. A. Nelson, Wheaton, Ill. and M. G. Chasanov, Homewood, Ill.
3,287,111	ZIRCONIUM BASE NUCLEAR REACTOR ALLOY	H. H. Klepfer, Pleasanton, Calif.
3,287,224	LARGE FAST NUCLEAR REACTOR	W. B. Loewenstein, Elmhurst, Ill.
3,287,228	BOILING WATER NEUTRONIC REACTOR	G. E. Gorker, Cincinnati, Ohio
3,287,278	FAST REACTOR FUEL	R. E. Thoma, Oak Ridge, Tenn.
3,287,279	PREPARATION OF A FILTERABLE CO-PRECIPITATE OF PLUTONIUM AND URANIUM	W. L. Lyon, Fremont, Calif.
3,287,518	SENSOR FOR DETECTING TRANSIENT SHOCK PHENOMENA	D. R. Henley, Newark, Calif.
3,287,672	DISC-LOADED WAVEGUIDE TUNING MACHINE WHICH AUTOMATICALLY TUNES SUCCESSIVE CAVITIES BY INDENTING WAVEGUIDE WALL	M. L. Heinz, Mountain View, Calif.
3,287,673	ATTENUATOR FOR SUPPRESSING HIGH-ORDER CAVITY RESONANCES HAVING A TRANSVERSE ELECTRIC COMPONENT	F. G. Hammersand, E. Pittsburgh, Pa.
3,287,947	EXPLOSION APPARATUS FOR FLANGING A TUBE	C. E. Frantz, F. P. Vlacil, E. R. Astley, Richland, Wash. and W. E. Cawley, Phoenix, Ariz.
3,288,360	LIQUID CENTRIFUGE CORE	E. F. Babelay, Knoxville, Tenn. and H. P. Barringer, Oak Ridge, Tenn.

3,288,571	PREPARATION OF URANIUM ALUMINIDES UAl_3 AND $UAl_{4.5}$	W. J. Werner, Clinton, Tenn. M. C. McIlwain, Huntsville, Ala. and J. P. Hammond, Knoxville, Tenn.
3,288,682	HYDRO-PNEUMATIC APPARATUS FOR CHANGING CRITICAL CONFIGURATION OF NUCLEAR FUEL MASS	K. Rilak, Havertown, Pa.
3,288,717	METHOD FOR PREPARATION OF URANIA SOLS	L. E. Morse, Oak Ridge, Tenn.
3,288,979	GRAPHITE WELDING	L. E. Mills, Kennewick, Wash. and R. F. Boolen, Richland, Wash.
3,288,993	PLASMA PARTICLE SEPARATION AND ANALYZER HAVING A GRID STRUCTURE CONSISTING OF LINEAR TUBULAR PORTIONS	J. F. Steinhaus, Livermore, Calif. and T. O. Passell, Palo Alto, Calif.
3,288,999	HUMIDITY INSENSITIVE PROPORTIONAL COUNTER HAVING A HEATING SOURCE CONNECTED TO A WIRE ANODE	C. J. Borkowski, R. J. Fox, Oak Ridge, Tenn. and A. M. R. Ferrari, San Carlos, Argentina
3,289,122	BOMBARDMENT FREE MICROWAVE WAVEGUIDE WINDOW	B. Vural, Princeton, N.J.
3,290,122	PROCESS FOR PREPARING OXIDE GEL MICROSPHERES FROM SOLS	S. D. Clinton, A. T. Kleinsteuber, Oak Ridge, Tenn., P. A. Haas, Knoxville, Tenn. and L. J. Hirth, Boulder, Colo.
3,290,179	METHOD AND APPARATUS FOR DETERMINING DRIFT DEPTH OF IMPURITIES IN SEMICONDUCTORS	F. S. Goulding, Lafayette, Calif.
3,290,221	BOILING WATER NUCLEAR REACTOR WITH BUOYANT FUEL OR REFLECTOR CONTROL ASSEMBLY	G. E. Gorker, Cincinnati, Ohio
3,290,223	COATED NUCLEAR REACTOR FUEL PARTICLE OF UO_2 AND METHOD OF MAKING THE SAME	J. M. Blocher, M. F. Browning and R. W. Dayton, Columbus, Ohio
3,290,477	WELDING MEANS AND METHOD	J. A. Chopp, Denver, Colo.
3,290,500	FAST NEUTRON SPECTROMETER UTILIZING LITHIUM CONTAINING FILMS	M. S. Bokhari, Lahore, Pakistan, V. V. Verbinski, T. A. Love and R. E. Zedler, Oak Ridge, Tenn.
3,290,502	PORT APPARATUS FOR EXTRACTING MATERIALS FROM RADIOACTIVE ENCLOSURES	D. F. Skinner, T. W. Wolf and W. Z. Wade, Livermore, Calif.
3,290,615	MERCURY-WETTED FIXED ELECTRODE ELECTRIC ARC GENERATOR	F. K. Ludwig, South Bend, Ind. and J. T. D'Alessio Buenos Aires, Argentina
3,290,773	PROCESS FOR WELDING NICKEL TO NIOBIUM	C. Wohlberg and J. R. Markham, Los Alamos, N.Mex.
3,291,126	AIR COOLING UNIT FOR PROTECTIVE CLOTHING AND THE LIKE	R. R. Hessick, Aiken, S.C.
3,291,698	FUEL ELEMENT	P. Fortescue, Santa Fe, Calif.
3,291,699	FUEL ELEMENT	K. A. Trickett, M. T. Simnad, San Diego, Calif. and C. J. Malek, Poway, Calif.
3,291,870	METHOD OF FABRICATING A MULTICHANNEL NUCLEAR FUEL ELEMENT	G. S. Allison, Richland, Wash.
3,291,997	METHOD AND APPARATUS FOR TRACING FLUID FLOW THROUGH POROUS MEDIA	R. H. Hawkins, E. L. Albenesius, Aiken, S.C. and C. C. Haskell, N. Augusta, S.C.
3,292,255	BRAZING ALLOYS FOR TUNGSTEN AND MOLYBDENUM	J. C. Marshall and H. G. Smith, Cincinnati, Ohio
3,292,426	VIBRATION DETECTION DEVICE	J. A. McCann, Glenville, N.Y.
3,292,537	MULTI-SIGNAL EXPLOSIVE DETONATOR	F. A. Goss, Jr. Albuquerque, N.Mex.
3,292,937	SHAFT SEAL FOR LIQUID CENTRIFUGES	C. E. Nunley, Kingston, Tenn.
3,293,007	STEAM-CORROSION-RESISTANT IRON-CHROMIUM-ALUMINUM-YTTRIUM ALLOYS AND PROCESS FOR MAKING SAME	C. S. Wukusick, Cincinnati, Ohio
3,293,135	NUCLEAR REACTOR FUEL	S. Jaye, Solana Beach, Calif. and D. H. Lee, Jr. Del Mar, Calif.
3,293,168	APPARATUS FOR COATING SUBSTRATES BY CATHRODE SPUTTERING	W. P. Schulz, San Bruno, Calif.
3,293,434	PHOTONEUTRON MONITOR FOR DETECTING REACTOR FUEL ELEMENT FAILURES	A. H. Dexter, Aiken, S.C. and A. C. Lapsley, Charlottesville, Va.

3,293,488	LOW INDUCTANCE CAPACITOR AND SWITCHING ASSEMBLY	R. S. Dike and E. L. Kemp, Los Alamos, N.Mex.
3,293,741	BRAZING ALLOYS FOR REFRACTORY METALS	R. G. Gilliland, Oak Ridge, Tenn.
3,294,209	FRICTION MECHANISM WITH SAPPHIRE FRICTION SURFACE	R. D. Kachman, Madison Heights, Mich. and W. R. Kee, Birmingham, Mich.
3,294,492	PROCESS FOR DECLADDING ZIRCONIUM FROM ZIRCONIUM CLAD NUCLEAR FUEL ELEMENTS	C. B. Bartlett, West Islip, N.Y. E. Wirsing, Mattituck and L. P. Hatch, Brookhaven, N.Y.
3,294,493	METHOD OF SEPARATING URANIUM AND PLUTONIUM	M. J. Steindler, Park Forest, Ill., A. A. Jonke, Elmhurst, Ill., R. K. Steunenberg, M. D. Adams, Naperville, Ill. and R. C. Vogel, Hinsdale, Ill.
3,294,494	METHOD FOR REMOVING LANTHANIDES AND TRIVALENT ACTINIDES FROM AQUEOUS NITRATE SOLUTIONS	F. L. Moore, Knoxville, Tenn.
3,294,645	CONTROLLED UNLOADING OF GEOMETRICALLY ORDERED PACKED BEDS	H. Susskind, Huntington, N.Y., W. W. Becker, Shorcham, N.Y. and H. W. Maresca (deceased)
3,294,660	AMORPHOUS ZINC OXIDE SEMICONDUCTOR AND METHOD OF MAKING	W. D. Kingery, Lexington, Mass. and R. A. Mickelsen, Bellevue, Wash.
3,294,688	THERMOELECTRIC CONVERTER COMPOSITION	W. Precht, Towson, Md.
3,294,698	HOLLOW, SPHERICAL UO_2 NUCLEAR FUEL PARTICLES	H. N. Barr and L. A. Sundquist, Baltimore, Md.
3,294,877	VAPOR PHASE SINTERING PROCESS	J. P. Hammond, Knoxville, Tenn.
3,295,082	MAGNET COIL HAVING COOLING MEANS	R. L. Kustom, Oak Lawn, Ill. and G. E. Yurka, Berwyn, Ill.
3,295,844	SINTERING FURNACE	A. C. Neeley and W. J. Yaggi, Oak Ridge, Tenn.
3,296,032	POWER FLATTENING DEVICE FOR RADIOISOTOPE HEATED THERMOELECTRIC GENERATOR	H. Belofsky, Verona, N.J.
3,296,081	NUCLEAR REACTORS	R. Wildgoose, Derby, England
3,296,085	CALANDRIA CORE FOR SODIUM GRAPHITE REACTOR	W. S. Peck, Pacoima, Calif. R.S. Duncan, Canoga Park, Calif. and A. C. Williams, Chatsworth, Calif.
3,296,123	REMOVAL OF CESIUM FROM AQUEOUS SOLUTIONS BY ION EXCHANGE	W. E. Prout, H. J. Groh, Aiken, S.C. and E. R. Russell, Columbia, S.C.
3,296,411	WELDING JIG	J. W. Woolsey and H. I. Bowers Los Alamos, N.Mex.
3,296,434	METHOD OF OPERATING AN ION SOURCE FOR A TIME OF FLIGHT MASS SPECTROMETER	M. H. Studier, Downers Grove, Ill.
3,296,440	SHUTDOWN REACTIVITY METER FOR MEASURING THE SUBCRITICAL REACTIVITY IN A NUCLEAR REACTOR	M. A. Schultz, Pittsburgh, Pa., V. G. Shaw, Latrobe, Pa. and I. Bluestein, Pitcairn, Pa.
3,296,487	PLURAL VOLTAGE REGULATOR DISCHARGE DEVICES IN A UNITARY STRUCTURE	M. Yarmovsky, Livingston, N.J.
3,296,844	COLD-WORKING LUBRICATION	F. B. Quinlan, Richland, Wash.
3,297,580	NEUTRAL METAL CLEANING COMPOSITIONS CONTAINING HYDRAZINE AND A POLYCARBOXYLAMINO ACID	E. C. Pitzer, Scotia, N.Y.
3,297,872	METHOD AND APPARATUS FOR MONITORING DIFFUSION PUMP BACK STREAMING IN THE THROAT OF SAID PUMP	P. B. Kennedy, El Cerrito, Calif.
3,298,452	WEIGHT RESPONSIVE DISPENSER	H. C. Francke, Oak Ridge, Tenn. and E. G. Laggis, Knoxville, Tenn.
3,298,564	MACHINE FOR DISPENSING THIN ELONGATED OBJECTS	S. J. Wheatley, Clinton, Tenn. and H. K. McCaleb, Huntsville, Ala.
3,298,826	EMBRITTLEMENT-RESISTANT IRON-CHROMIUM-ALUMINUM-YTTRIUM ALLOYS	C. S. Wukusick, Cincinnati, Ohio
3,298,921	PYROLYTIC CARBON COATED PARTICLES FOR NUCLEAR APPLICATIONS	J. C. Bokros, J. Chin, R. J. Price, San Diego, Calif. and W. V. Goeddel, Poway, Calif.
3,298,957	METHOD FOR DISSOLVING ZIRCONIUM AND FORMING STABILIZED ALKALINE SOLUTIONS THEREOF	T. A. Gens, Oak Ridge, Tenn.

3,298,960	METHOD FOR THE DISPOSAL OF WASTE SOLUTIONS USING RIGID GELS	E. C. Pitzer, Scotia, N.Y.
3,298,961	CONCENTRATION AND CONTAINMENT OF RADIOACTIVITY FROM RADIOACTIVE WASTE SOLUTIONS IN ASPHALT	G. D. Davis, Kingston, Tenn., E. J. Frederick, J. H. Holmes, Knoxville, Tenn. and H. W. Godbee, Oak Ridge, Tenn.
3,299,811	MINIMAL GAS PRODUCING LOW DETONATION RATE EXPLOSIVE AND DETONATION SOURCES	R. W. Gates, Menlo Park, Calif.
3,300,284	PREPARATION OF ACTINIDE METAL CARBIDE MICROSPHERES	R. L. Pilloton and R. L. Hamner, Oak Ridge, Tenn.
3,300,388	IN CORE SAMPLING AND SPRAY-DEVICE FOR NUCLEAR REACTORS	R. B. Jerman, Milwaukee, Wis., P. F. Santoro, Hartford, Conn. and H. F. vanKessel, Wheaton, Md.
3,300,640	MEANS FOR MEASURING PLASMA DENSITY BY RESONANT CHARGE TRANSFER WITH A BEAM OF NEUTRAL PARTICLES	H. P. Eubank, Princeton, N.J.
3,300,719	WIDE-RANGE COUNT RATE METER UTILIZING PLURAL COUNT RATE CIRCUITS AND A RANGE IDENTIFIER	S. W. Thomas, Livermore, Calif.
3,300,848	METHOD OF PREPARING OXIDES FOR NEUTRONIC REACTOR CONTROL	C. F. Leitten, R. A. Potter, Oak Ridge, Tenn. and R. E. McDonald, Clinton, Tenn.
3,300,852	METHOD FOR BONDING BERYLLIUM OXIDE TO GRAPHITE	H. J. deBruin, New South Wales, Australia
3,301,041	PRESTRESSED CONCRETE CONTAINMENT VESSEL	D. W. Mueller, Los Alamos, N.Mex.
3,301,667	PREPARATION OF URANIUM-NIOBIUM ALLOYS BY CO-REDUCTION	W. R. Gilliher and R. A. Johnston, Paducah, Ky.
3,301,763	METHOD FOR PREPARING ACTINIDE OXIDE FUEL PARTICLES AND ARTICLE THEREOF	R. L. Beatty, Clinton, Tenn. and H. Beutler, Oak Ridge, Tenn.
3,301,789	ZIRCONIUM REMOVAL FROM STRONTIUM-90	L. A. Bray, Richland, Wash.
3,302,042	NUCLEAR REACTOR WITH THERMIONIC CONVERTER	G. M. Grover, Los Alamos, N.Mex., J. Bohdansky, Laveno, Italy and C. A. Busse, Tanio, Italy
3,302,097	ELECTRICAL APPARATUS	P. O. Bobo, Pittsburgh, Pa. and F. W. Keay, Irwin, Pa.
3,302,105	EDDY CURRENT NONDESTRUCTIVE TESTING DEVICE USING AN OSCILLOSCOPE TO IDENTIFY AND LOCATE IRREGULARITIES IN A TEST PIECE	H. L. Libby, Richland, Wash. and C. R. Wandling, Kennewick, Wash.
3,302,701	TURBULENCE PROMOTER FOR INCREASED HEAT AND MASS TRANSFER	D. G. Thomas, Oak Ridge, Tenn.
3,302,993	PROCESS OF RECOVERING STRONTIUM, CESIUM, CERIUM AND RARE EARTH VALUES FROM RADIOACTIVE SOLUTIONS	L. A. Bray, Richland, Wash.
3,303,004	METHOD FOR DISSOLVING STAINLESS STEEL MEMBERS	M. R. Bennett, Oak Ridge, Tenn. and G. I. Cathers, Knoxville, Tenn.
3,303,098	NUCLEAR-POWER SEA-WATER CONVERSION PLANT	J. P. Lagowski, Plainfield, Ill.
3,303,343	NEUTRON MONITOR AND BURST DETECTOR	F. M. Glass, Oak Ridge, Tenn.
3,303,781	VOLTAGE REGULATOR TUBE WITH INTEGRAL PLURAL SERIES DISCHARGE DEVICE	M. Yarmovsky, Livingston, N.J.
3,303,426	STRONG FOCUSING OF HIGH ENERGY PARTICLES IN A SYNCHROTRON STORAGE RING	R. A. Beth, Bonn, Germany
3,303,650	ION PROPULSION	O. C. Yonts, Oak Ridge, Tenn.
3,304,206	THERMOELECTRIC CONVERTER MODULE	R. E. Burdick, Chatsworth, Calif. and S. R. Bocklin, Pacific Palisades, Calif.
3,304,249	METHOD OF STABILIZING A FLUIDIZED BED USING A GLOW DISCHARGE	H. Katz, Port Jefferson, N.Y.
3,305,005	CAPILLARY INSERT FOR HEAT TUBES AND PROCESS FOR MANUFACTURING SUCH INSERTS	G. M. Grover, Los Alamos, N.Mex., C. A. Busse, Laveno, Italy and R. J. Caron, Ispra, Italy
3,305,449	NUCLEAR REACTOR CORE ASSEMBLY	W. T. Furgerson, Del Mar, Calif.
3,305,683	INDEXING MECHANISM FOR IRRADIATING PACKAGES	A. T. Volonakis, Emerson, N.J.

3,305,785	TIME EXPANDER FOR MULTICHANNEL ANALYZER	E. E. Carroll, Bethel Park, Pa.
3,306,008	CONTINUOUS HIGH EXPANSION FOAM GENERATOR WITH CONTROLLED EXPANSION RATES	L. Silverman, Dover, Mass.
3,306,681	DAMPED BEARING FOR CENTRIFUGES	H. P. Barringer, Oak Ridge, Tenn.
3,306,972	SUPERCONDUCTING CABLE	C. Laverick, Downers Grove, Ill., M. H. Foss, Pittsburgh, Pa. and G. M. Lobell, Oak Forest, Ill.
3,307,005	CAM OPERATED MAGNETIC SWITCH	L. Pussell, Concord, Mass., H. E. Grier, Newton Center, Mass. (All rights to AEC), J. W. Babb, Belmont, Mass. and M. P. Hiss, (deceased) (Sole license to Raytheon)
3,307,016	COLLET FOR WORKPIECE IN ELECTRIC WELDING	L. R. Vancott, San Jose, Calif.
3,307,052	PIEZOELECTRIC STRESS GAGE	F. W. Neilson, R. A. Graham and W. B. Benedick, Albuquerque, N. Mex.

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,270,496	353,635	GASEOUS VORTEX REACTOR FOR A ROCKET MOTOR	F. E. Rom Avon Lake, Ohio	9-6-66
3,307,357	345,814	VORTEX ROCKET REACTOR	S. A. Colgate Livermore, Calif.	3-7-67
3,307,700	546,488	APPARATUS FOR CONTROLLING THE FLOW OF SOLIDS	N. H. deNevers Salt Lake City, Utah	3-7-67
3,307,884	402,665	CONTROL SYSTEM FOR MAGNETIC SUSPENSION OF CENTRIFUGE ROTORS	H. P. Dunlap Concord, Tenn. E. C. Evans W. G. S. Fort H. A. Kermicle Oak Ridge, Tenn. W. W. Smith Rockwood, Tenn.	3-7-67
3,309,?96	353,643	HIDDEN EXPLOSIVES DETECTOR UTILIZING LONG-LIVED RADIOACTIVE TRACER MATERIAL	E. D. Jordan Kensington, Md. C. L. Cowan Rockville, Md.	3-7-67
3,308,373	345,816	LINE VOLTAGE LIMITER	R. L. Shaum Albuquerque, N.Mex.	3-7-67
3,309,180	348,921	BRAZING ALLOYS FOR TANTALUM	R. H. Mueller J. C. Marshall Cincinnati, Ohio	3-14-67
3,309,233	422,472	SOLID ELECTROLYTE ELECTROCHEMICAL CELL	C. C. McPheeters R. Tercovich Los Alamos, N.Mex. J. C. McGuire White Rock, N. Mex.	3-14-67
3,309,277	456,583	NUCLEAR REACTOR AND METHOD OF FUEL MANAGEMENT THEREFOR	S. Jaye D. H. Lee, Jr. Solana Beach, Calif. J. R. Triplett Rancho Santa Fe, Calif.	3-14-67
3,309,280	421,133	PRESSURE-TUBE NUCLEAR REACTOR INCLUDING FUEL ASSEMBLY WITH THERMAL BAFFLE	L. J. Balog Irwin, Pa.	3-14-67
3,309,323	498,172	THORIUM OXIDE OR THORIUM-URANIUM OXIDE WITH MAGNESIUM OXIDE	F. R. Russell Columbia, S.C. W. E. Prout H. J. Groh Aiken, S.C. G. W. Watt Austin, Texas	3-14-67

3,309,767	2,554	BRAZING ALLOY AND METHOD OF BRAZING WITH SAME	L. Sama Seaford, N.Y. G. T. Pepino, Jr. Westburg, N.Y.	3-21-67
3,310,227	447,588	SURGE AND BACKSTREAMING POROUS DIAPHGRAM FILTER FOR VACUUM SYSTEM	N. Milleron Berkeley, Calif.	3-21-67
3,310,386	486,572	PREPARATION OF PLUTONIUM OXIDE SOL AND CALCINED MICROSPHERES	M. H. Lloyd Oak Ridge, Tenn.	3-21-67
3,310,473	522,333	SPECTRAL SHIFT REACTOR CONTROL	W. E. Winsche Bellport, N.Y.	3-21-67
3,310,477	414,481	METHOD OF ISOLATING A DESULFOVIBRIO FOR USE IN REMOVING SULFATES FROM BRINE	C. R. Wilke El Cerrito, Calif.	3-21-67
3,310,500	510,477	DISTILLATION METHOD FOR REPROCESSING MOLTEN SALT REACTOR FUELS	M. J. Kelly Oak Ridge, Tenn.	3-21-67
3,310,684	276,670	LOAD LEVELER FOR PULSE MODULATOR	R. H. Miller Mountain View, Calif.	3-21-67
3,310,764	471,774	CONNECTION SYSTEM FOR MAGNET EXCITATION COILS	R. A. Kilpatrick Orinda, Calif.	3-21-67
3,312,526	230,766	METHOD AND CATALYST FOR COMBINING HYDROGEN AND OXYGEN IN THORIUM OXIDE SLURRIES	C. K. Hanson M. E. Wadsworth Salt Lake City, Utah R. M. Horton Pullman, Wash.	4-4-67
3,312,539	395,967	BRAZING ALLOYS FOR TUNGSTEN AND MOLYBDENUM	J. C. Marshall H. G. Smith Cincinnati, Ohio	4-4-67
3,312,599	544,324	METHOD OF INTRODUCING A COLORED GROUP SENSITIVE TO pH CHANGES INTO ENZYMES BY THE REACTION WITH 2-HYDROXY-5-NITRO-BENZYL BROMIDE	D. E. Koshland, Jr. Bellport, N.Y. G. Latham E. Patchogue, N.Y. Y. D. Karkhanis Philadelphia, Pa.	4-4-67
3,312,702	404,991	6-MERCAPTOPURINE 3-N-OXIDE	G. B. Brown Mamaroneck, N.Y. G. Levin London, England	4-4-67
3,312,849	548,805	ISOTOPE RECEIVER FOR A CALUTRON HAVING AN OIL RESERVOIR IN ITS COLLECTION POCKET	W. A. Bell, Jr. A. M. Veach Oak Ridge, Tenn.	4-4-67
3,312,908	367,905	DEVICE FOR SUPERREGULATION OF AN AMPLIFIER-DISCRIMINATOR CIRCUIT	K. G. Porges J. A. Bjorkland Evanston, Ill.	4-4-67
3,313,156	379,413	MONITORING OF PEAK HEAT FLUX	B. P. Breen South Pasadena, Calif. G. Burnet, Jr. Ames, Iowa	4-11-67
3,313,935	398,137	VAPOR FEED SYSTEM FOR EASY VAPORIZABLE MATERIALS TO THE ARC CHAMBER OF CALUTRONS	W. A. Bell, Jr. R. M. Ennis, Jr. Oak Ridge, Tenn.	4-11-67
3,314,143	408,708	METHOD FOR PRODUCING TUBE SHELLS	R. E. McDonald C. F. Leitten, Jr. Oak Ridge, Tenn.	4-18-67
3,314,865	326,303	ELECTROLYTIC DEPOSITION OF ACTINIDE OXIDES	J. H. Kleinpeter Richland, Wash. G. Jansen, Jr. Kennewick, Wash.	4-18-67
3,314,867	320,967	METHOD OF ETCHING TANTALUM AND NIOBIUM FOR ELECTROPLATING	J. K. Gore R. Seegmiller Los Alamos, N.Mex.	4-18-67
3,315,076	402,369	DETERMINING THE THICKNESS OF A FURNACE LINING BY MEANS OF NEUTRON ACTIVATION	E. D. Jordan Kensington, Md.	4-18-67
3,315,181	373,893	PULSE MODULATOR CIRCUIT	J. A. Rosenthal Lafayette, Calif.	4-18-67
3,315,479	558,220	STORING HYDROGEN	R. H. Wiswall Brookhaven, N.Y. J. J. Reilly, Jr. Bellport, N.Y.	4-25-67
3,315,732	443,725	HIGH ENERGY PARTICLE BEAM DUMP AND HEAT SINK	E. L. Garwin Los Altos Hills, Calif. D. R. Walz J. Jurov Palo Alto, Calif.	4-25-67
3,316,069	346,361	REFRACTORY METAL BRAZING PRODUCT AND PROCESS	J. C. Marshall J. A. McGurty C. Korton Cincinnati, Ohio	4-25-67

3,316,412	373,895	SINGLE FIELD POLARIZING SPECTROPHOTOMETER FOR MEASURING MASS MOTION IN A PLASMA	J. G. Hirschberg Princeton, N.J.	4-25-67
3,317,186	536,592	ALIGNMENT AND SUPPORT HYDRAULIC JACK	J. Brandt Menlo Park, Calif.	5-2-67
3,317,288	351,873	NIOBIUM SILICON BRAZING ALLOY FOR REFRACTORY METALS	J. C. Marshall R. H. Mueller Cincinnati, Ohio	5-2-67
3,317,355	432,435	HEAT TREATMENT OF PLUTONIUM	R. D. Nelson Grandview, Wash.	5-2-67
3,317,398	293,919	FUEL ELEMENT ASSEMBLY	E. Hutter Chicago, Ill.	5-2-67
3,317,716	296,877	HIGH SPEED REVERSING COUNTER	L. L. Ducote Castro Valley, Calif.	5-2-67
3,317,823	271,530	SELF-CHECKING IONIZATION CHAMBER TYPE RADIATION DETECTOR	R. S. Brodsky Annandale, Va.	5-2-67
3,318,144	388,335	SUPERSONIC TEST FACILITY	R. E. Duff Livermore, Calif.	5-9-67
3,318,246	442,218	PHOSPHIDE COATING ON REFRACTORY METALS	H. A. Wilhelm Ames, Iowa J. H. Witte Cincinnati, Ohio	5-9-67
3,318,512	536,948	METHOD FOR DEGASSING A VACUUM SYSTEM	W. I. Linlor Mountain View, Calif.	5-9-67
3,318,670	572,156	PRODUCTION OF ACTINIDE ALUMINIDE IN A FLUIDIZED BED	E. S. Grimmett Idaho Falls, Idaho	5-9-67
3,318,695	283,126	METHOD OF PRODUCING NUCLEAR FUEL ELEMENTS OF STAINLESS STEEL COATED UO_2 PARTICLES	D. E. Goslee White Marsh, Md. L. Frank Baltimore, Md.	5-9-67
3,318,724	316,782	METHOD FOR MAKING TUNGSTEN METAL ARTICLES	R. L. Heestand C. F. Leitten, Jr. Oak Ridge, Tenn.	5-9-67
3,318,779	462,767	FUEL ELEMENT	R. F. Turner D. A. Nehrig San Diego, Calif. H. I. Leon Del Mar, Calif.	5-9-67
3,319,066	407,602	ADJUSTABLE WIDE RANGE RADIATION LEVEL ALARM	W. Genert Pittsburgh, Pa.	5-9-67
3,319,083	384,270	UNIVIBRATOR CIRCUIT FOR DETECTING THE TIME OCCURRENCE OF INPUT PULSES THERETO	M. G. Strauss Park Forest, Ill.	5-9-67
3,319,118	383,264	PROCESS AND APPARATUS FOR PRODUCING PURIFIED FAST PARTICLE BEAMS	C. C. Damm Alamo, Calif.	5-9-67
3,319,351	438,138	TUBULAR EXTRUSION DRYER	B. Sprissler Joppa, Md. E. P. Pease Baltimore, Md.	5-16-67
3,319,497	440,964	WORK-PIECE STABILIZING MEANS	E. D. Needham F. A. Skasik Albuquerque, N. Mex.	5-16-67
3,320,034	409,305	CONVERSION OF U_3O_8 TO UC	S. Strausberg Woodland Hills, Calif.	5-16-67
3,320,056	456,009	LIQUID PHRASE EXTRUSION FOR FORMING REFRACTORY MATERIALS	R. F. Stoops Raleigh, N.C.	5-16-67
3,320,098	435,102	TUNGSTEN-OSMIUM THERMOCOUPLE AND ELEMENT THEREOF	W. C. Kuhlman Cincinnati, Ohio	5-16-67
3,320,179	582,200	OPENLY POROUS REFRACTORY NUCLEAR FUEL MICROSPHERES AND METHOD OF PREPARATION	T. A. Gens Tonawanda, N.Y.	5-16-67
3,320,381	455,354	FLUID FLOW INTERLOCK AND INDICATOR	F. K. Crosby Moraga, Calif. W. E Eaton Kensington, Calif.	5-16-67
3,320,478	452,950	HIGH COULOMB SPARK GAP SWITCH WITH SERIES MAGNET COILS FOR ROTATING THE ARC	J. L. Harrison Princeton, N.J.	5-16-67
3,320,495	292,290	SURFACE-BARRIER DIODE FOR DETECTING HIGH ENERGY PARTICLES AND METHOD FOR PREPARING SAME	R. J. Fox C. J. Borkowski Oak Ridge, Tenn.	5-16-67
3,320,786	381,602	APPARATUS FOR WELDING A SPIRAL RIB TO A BODY	L. R. Vancott San Jose, Calif.	5-23-67

3,321,378	596,341	FUEL ELEMENT FOR A NUCLEAR REACTOR	W. B. Thomson Northridge, Calif.	5-23-67
3,321,646	337,967	THERMOELECTRIC CELL AND REACTOR	C. M. Grover E. W. Salmi Los Alamos, N. Mex. R. W. Pidd La Jolla, Calif.	5-23-67
3,321,664	388,735	PLASMA ACCELERATOR HAVING RAPIDLY PULSED COIL FOR EXPELLING PLASMA	J. A. Phillips J. H. Mather Los Alamos, N.Mex.	5-23-67
3,322,330	428,261	DUAL PASSAGE COLD TRAP	C. E. Miner Walnut Creek, Calif. R. M. Reimers Berkeley, Calif.	5-23-67
3,322,503	369,025	SILICON PRODUCTION PROCESS	H. Bloom Hobart, Australia W. L. Jolly El Cerrito, Calif.	5-30-67
3,322,536	288,568	TUNGSTEN SLIP CASTING METHOD	S. D. Stoddard D. E. Nuckolls Los Alamos, N. Mex.	5-30-67
3,322,563	305,899	PROCESS OF PREPARING AN ADSORBENT	R. H. Moore Kennewick, Wash.	5-30-67
3,322,660	259,468	PRODUCTION OF HYDRAZINE	W. H. Johnston Baltimore, Md. F. W. Lampe State College, Pa.	5-30-67
3,322,951	392,975	EFFICIENT BETA-RAY EMISSION SOURCE FOR IRRADIATION APPLICATIONS	F. M. Yavorsky Monongahela, Pa.	5-30-67
3,322,954	448,897	AVERAGING LIGHT SENSOR AND RECORDING SYSTEM USING DOUBLE PHOTOCELL STRUCTURE	P. R. Bell C. C. Harris Oak Ridge, Tenn.	5-30-67
3,322,975	373,892	NON-LINEAR END-OF-LINE CLIPPER CIRCUIT FOR PULSERS	W. I. Smith Palmyra, N.J.	5-30-67
3,323,000	336,081	ELECTROSTATIC DEFLECTION SYSTEM	L. Mancebo Livermore, Calif.	5-30-67
3,323,088	471,775	CHARGED PARTICLE EXTRACTING MAGNET FOR AN A ACCELERATOR	G. R. Lambertson Oakland, Calif.	5-30-67
3,323,133	485,644	OPERATIONS TIMING DEVICE	R. A. Armer H. H. Heckman Berkeley, Calif.	5-30-67

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3,323,338	330,212	METHOD FOR HANDLING SMALL ELEMENTS	C. H. Allen Pasco, Wash.	6/6/67
3,323,846	442,836	DRY BOX GLOVE RETAINING MEANS	L. O. Boddy Westminster, Colo.	6/6/67
3,324,005	419,272	PROCESS OF PRODUCING RHENIUM FOR TUNGSTEN-RHENIUM ALLOYS BY THE IRRADIATION OF TUNGSTEN	E. F. Miller Rockville, Md.	6/6/67
3,324,325	486,577	DIELECTRIC WALL STABILIZATION OF INTENSE CHARGED PARTICLE BEAMS	R. J. Briggs Danville, Calif.	6/6/67
3,324,540	288,574	METHOD FOR MAKING POROUS TARGET PELLETS FOR A NUCLEAR REACTOR	A. L. Lotts Knoxville, Tenn. E. E. Barton Oak Ridge, Tenn.	6/13/67
3,324,543	443,116	PRESSURE BONDED CERAMIC-TO-METAL GRADIENT SEALS	C. I. McVey Cincinnati, Ohio H. McConnaughey Lynchburg, Ohio	6/13/67
3,324,848	337,113	CAPACITANCE RESPIROMETER	E. Domeier A. J. Vorwald Detroit, Mich.	6/13/67
3,325,656	522,326	HIGH SPEED DISCRIMINATOR WITH A WIDE DYNAMIC RANGE HAVING A WIDE AMBIENT TEMPERATURE RANGE	F. H. Sawada Scotia, N.Y.	6/13/67
3,326,042	422,471	ULTRASONIC LIQUID LEVEL INDICATOR	J. D. Ross Clearwater, Fla. L. E. Goodwin Wilmington, Del. T. R. Herold Aiken, S.C.	6/20/67
3,326,048	456,014	MANOMETER	G. C. Benson Ann Arbor, Mich. J. E. Allen Ypsilanti, Mich.	6/20/67
3,326,673	582,210	PROCESS FOR SEPARATING PLUTONIUM FROM URANIUM FROM FISSION PRODUCTS	J. B. Knighton Joliet, Ill. W. Knoch Willow Springs, Ill. R. K. Steunenberg Naperville, Ill.	6/20/67
3,326,769	566,716	ENERGETIC ELECTRON PLASMA BLANKET	R. V. Meidigh Knoxville, Tenn. W. L. Stirling Oak Ridge, Tenn.	6/20/67
3,327,127	340,838	CURRENT CONTROL CIRCUIT	R. E. Pechacek Berkeley, Calif.	6/20/67
3,327,152	420,837	NON-PHOTOEMISSIVE GRID FOR A PHOTOTUBE AND PROCESS FOR MAKING SAME	A. L. Greilich Livermore, Calif.	6/20/67
3,328,132	594,635	METHOD OF SEPARATING UF_6 FROM BROMINE FLUORIDES	M. R. Bennett Oak Ridge, Tenn. G. I. Cathers Knoxville, Tenn.	6/27/67
3,328,139	435,549	POROUS TUNGSTEN METAL SHAPES	K. S. Hodge J. H. Peterson Columbus, Ohio	6/27/67
3,328,017	458,800	REACTION VESSEL FOR PRODUCTION OF PLUTONIUM	W. V. Conner Boulder, Colo.	6/27/67
3,328,512	457,539	ELECTRICAL CABLE ASSEMBLIES	J. R. Lembke Overland Park, Kan. T. W. Nininger J. J. Shea Kansas City, Mo.	6/27/67
3,328,708	437,332	METHOD AND APPARATUS FOR ACCELERATING IONS OF ANY MASS	B. H. Smith A. Ghiorso Berkeley, Calif. R. M. Main Oakland, Calif.	6/27/67
3,328,960	480,214	ION PROPULSION SYSTEM EMPLOYING LIFE-CYCLE WASTES AS A SOURCE OF IONIZABLE GAS	T. W. Martin Nashville, Tenn.	7/4/67
3,329,601	589,162	APPARATUS FOR COATING A CATHODICALLY BIASED SUBSTRATE FROM PLASMA OF IONIZED COATING MATERIAL	D. M. Mattox Albuquerque, N.Mex.	7/4/67
3,329,745	493,277	PROCESS FOR MAKING GELLED SPHERICAL PARTICLES OF OXIDES	L. D. LaGrange San Diego, Calif.	7/4/67
3,329,814	434,725	STEREO POSITRON CAMERA FOR DETERMINING THE SPATIAL DISTRIBUTION OF RADIOACTIVE MATERIAL IN A TEST BODY	H. O. Anger Oakland, Calif.	7/4/67

3,329,822	377,143	MEANS FOR EQUALIZING TWO OUTPUT SIGNALS	E. J. Rogers Shoreham, N.Y.	7/4/67	3,333,120	410,335	PULSE FORMING NETWORK VOLTAGE REGULATOR	W. T. Toulin Mountain View, Calif.	7/25/67
3,330,742	586,610	ELECTROLYTIC REDUCTION OF URANIUM HEXAFLUORIDE TO URANIUM METAL IN FUSED SALT	R. D. Piper Des Peres, Mo.	7/11/67	3,333,180	373,891	NONLINEAR RESISTANCE CIRCUIT FOR TRIPLING INPUT SIGNAL FREQUENCY	F. D. Neu Richmond, Calif.	7/25/67
3,330,889	374,859	PREPARATION OF HEAT SOURCES FOR RADIOISOTOPE HEATED THERMOELECTRIC GENERATORS	G. Samos Timonium, Md. J. L. Bloom Rockville, Md.	7/11/67	3,333,203	402,042	PULSE GENERATOR WITH STANDING WAVE ENERGY STORAGE	W. R. Baker Orinda, Calif.	7/25/67
3,331,526	384,013	ULTRAHIGH VACUUM SEAL	L. L. Leverson Gif-Sur-Yvette, France H. Milleron Berkeley, Calif.	7/18/67	3,333,473	452,033	METHOD OF DETERMINING THE PARTICLE SIZE DISTRIBUTION OF A POWDER	T. E. Crowder Concord, Tenn.	8/1/67
					3,333,721	445,808	PROTECTIVE CONTAINER	L. J. Marek Villa Park, Ill.	8/1/67
3,331,666	591,042	ONE-STEP METHOD OF CONVERTING URANIUM HEXAFLUORIDE TO URANIUM COMPOUNDS	W. C. Robinson Knoxville, Tenn. R. L. Heestand C. F. Leitten Oak Ridge, Tenn.	7/18/67	3,333,919	431,481	STRONTIUM RECOVERY PROCESS	J. S. Buckingham Kennewick, Wash.	8/1/67
					3,334,306	399,940	VOLTAGE TRANSIT SAMPLING CIRCUIT	H. J. Jensen Livermore, Calif.	8/1/67
3,331,683	547,033	METHOD OF STABILIZING PLUTONIUM DIOXIDE	W. C. Pritchard Los Alamos, N.Mex.	7/18/67	3,335,027	383,533	NICKEL PLATING	S. H. Pitts Arvada, Colo. H. A. Thompson Boulder, Colo.	8/8/67
3,331,744	807,959	PRODUCTION OF ISOTOPES FROM THERMONUCLEAR EXPLOSIONS	T. B. Taylor La Jolla, Calif.	7/18/67	3,335,060	488,486	SEED-BLANKET NEUTRONIC REACTOR	R. L. Diener Pittsburgh, Pa.	8/8/67
3,331,898	504,267	METHOD FOR PREPARING METAL OXIDE MICROSPHERES	P. A. Haas Knoxville, Tenn. S. D. Clinton Oak Ridge, Tenn.	7/18/67	3,335,061	519,162	METHOD OF OPERATING A BREEDER REACTOR	W. E. Winsche Bellport, N.Y. M. M. Lovine Port Jefferson, N.Y.	8/8/67
3,331,962	397,346	INTEGRALLY BONDED ENCAPSULATED GAMMA SOURCE	O. A. Kuhl Northport, N.Y.	7/18/67	3,335,095	613,048	PREPARATION OF ACTINIDE SOLS BY AMINE EXTRACTION	J. G. Moore Clinton, Tenn.	8/8/67
3,331,966	395,344	ELECTRICAL CIRCUIT FOR RAPIDLY REVERSING THE DIRECTION OF CURRENT FLOW THROUGH A MAGNETIC CORE INDUCTOR	R. E. Pechacek Berkeley, Calif.	7/18/67	3,335,493	490,752	LINE CUTTER	J. P. Gallagher Albuquerque, N.Mex.	8/15/67
					3,335,998	502,706	FAST-CLOSING VACUUM VALVE	M. L. Heinz Sunnyvale, Calif.	8/15/67
3,332,614	407,945	CENTRIFUGAL EXTRACTOR	D. S. Webster Aiken, S. C. W. E. Winsche Bellport, N.Y.	7/25/67	3,336,495	343,168	CERAMIC LOADED BUNCHER FOR LINEAR ACCELERATORS	G. A. Loew Palo Alto, Calif.	8/15/67
					3,337,257	493,939	GRAPPLING SYSTEM	G. V. Brynsvold San Jose, Calif.	8/22/67
3,332,741	296,145	CRUCIBLE REACTOR AND METHOD	E. T. Teatum Berkeley, Calif.	7/25/67					
3,332,771	386,456	RECOVERY OF PLATINUM METALS	H. M. Heidt Powell, Tenn.	7/25/67					

3,337,372	321,983	PROCESS FOR IMPROVING PROPERTIES OF ZIRCONIUM METAL	R. E. Reed-Hill Gainesville, Fla.	8/22/67
3,337,728	402,980	MASS SPECTROGRAPH ION SOURCE WHEREIN A PULSED ARC IS PRODUCED BY VIBRATING ONE ELECTRODE	L. Friedman Patchogue, N.Y. A. P. Irsa Plainview, N.Y.	8/22/67
3,338,665	268,840	FOAM ENCAPSULATION METHOD OF NUCLEAR REACTOR SAFETY	L. Silverman Dover, Mass.	8/29/67
3,338,686	455,016	THERMAL INSULATION	C. D. Pears Birmingham, Ala.	8/29/67
3,338,749	351,877	CATHODIC HYDROGEN CELL AND METHOD OF MAKING	C. E. Johnson Elk Grove, Ill. R. R. Heinrich Downers Grove, Ill. C. H. Crouthamel Glen Ellyn, Ill.	8/29/67
3,338,840	557,859	URANIUM MONONITRIDE-SODIUM PASTE NUCLEAR FUEL	P. A. Nelson Wheaton, Ill. H. G. Chasanov Homewood, Ill.	8/29/67

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3,339,631	33,330	HEAT EXCHANGER UTILIZING VORTEX FLOW	J. A. McGurty W. C. Hecker Cincinnati, O.	9/5/67
3,340,019	33,653	PROCESS FOR THE REPROCESSING OF IRRADIATED COMPACT FUELS BY FLUORINATION	C. Pierini Mol, Belgium A. Francesconi Turnhout, Belgium J. Schmets Mol-Donk, Belgium	9/5/67
3,340,023	30,098	CELLULAR STRUCTURE	W. J. Hulsey Oak Ridge, Tenn.	9/5/67
3,340,053	35,362	GAS-PRESSURE BONDING	E. S. Hodge J. H. Peterson Columbus, Ohio H. A. Tassin, Jr. Baton Rouge, La.	9/5/67
3,340,169	31,385	METHOD FOR THE PREPARATION OF N,N-DIFLUOROALKYLAMINES	J. W. Frazer Livermore, Calif.	9/5/67
3,340,425	33,399	ION GENERATOR HAVING BEAM STABILIZATION ACCELERATING ELECTRODES	G. G. Kelley Kingston, Tenn.	9/5/67
3,341,304	31,282	SEPARATION OF URANIUM FROM URANIUM DIOXIDE-ZIRCONIUM DIOXIDE MIXTURES	B. J. Newby Idaho Falls, Idaho	9/12/67
3,341,307	24,552	OXIDATION RESISTANT NIOBIUM	C. O. Tarr C. S. Wukusick Cincinnati, O. R. C. Lover Anchorage, Ky.	9/12/67
3,341,320	27,754a	PRODUCTION OF LOW PARTICLE SIZE-HIGH SURFACE AREA METAL POWDERS	S. H. Bailey Oak Ridge, Tenn.	9/12/67
3,341,350	26,880	METHOD OF PREPARING A URANIUM ARTICLE FOR A PROTECTIVE COATING	P. D. Anderson P. R. Coronado Livermore, Calif. L. M. Berry Albuquerque, N. Mex.	9/12/67
3,341,352	25,866	PROCESS FOR TREATING METALLIC SURFACES WITH AN IONIC BEAM	K. W. Ehlers Lafayette, Calif.	9/12/67

3,341,720	31,314	APPARATUS FOR PRODUCING A BEAM OF ACCELERATED LIQUID METAL DROPLETS	E. S. Sowa Westmont, Ill.	9/12/67
3,342,540	23,781	ANTIFLASH DEVICE	M. T. Abegg W. B. Leslie Albuquerque, N. Mex.	9/19/67
3,342,697	27,765	MULTISTAGE FLASH EVAPORATOR	R. P. Hammond Oak Ridge, Tenn.	9/19/67
3,343,020	30,339	APPARATUS FOR THE ACCELERATION, STORAGE AND UTILIZATION OF COUNTER-ROTATING CHARGED PARTICLE BEAMS	H. S. Gordon Orinda, Calif.	9/19/67
3,343,096	30,914	SYSTEM FOR PRODUCING HIGH ENERGY, HIGH INTENSITY CHARGED PARTICLE BEAMS	R. H. Rheaume Stony Brook, N. Y.	9/19/67
3,343,912	30,414	RECOVERY OF ALUMINUM NITRATE FROM AQUEOUS SOLUTIONS	W. W. Schulz Richland, Wash.	9/26/67
3,343,914	30,411	RECOVERING STRONTIUM FROM REACTOR FUEL REPROCESSING SOLUTIONS AS STRONTIUM SULFATE	L. A. Bray Richland, Wash.	9/26/67
3,343,915	31,386	DENSIFICATION OF REFRACTORY COMPOUNDS	R. C. Rossi Costa Mesa, Calif. R. M. Fulrath Berkeley, Calif.	9/26/67
3,343,924	33,953	SELECTIVE DECLADDING OF NUCLEAR FUEL ELEMENTS	L. J. Anastasia Midlothian, Ill. P. G. Alfredson Sydney, Australia M. J. Steindler Park Forest, Ill.	9/26/67
3,343,926	32,999	OXIDATION-REDUCTION PROCEDURE FOR PARTICLE-SIZE REDUCTION OF UO_2	I. W. Knudsen Downers Grove, Ill. N. M. Levitz Bellwood, Ill.	9/26/67
3,343,929	30,431	OXIDATION-RESISTANT BERYLLIUM ARTICLES AND PROCESS OF MAKING	R. J. Van Thyne Oak Lawn, Ill. J. J. Rausch Evanston, Ill.	9/26/67
3,343,979	31,698	METHOD FOR DEPOSITING A TUNGSTEN-RHENIUM METAL ALLOY ON A SUBSTRATE	C. E. Hamrin, Jr. Oak Ridge, Tenn.	9/26/67
3,344,034	35,386	CONTROL DEVICE FOR NUCLEAR REACTORS	R. A. Smith Latchworth, Eng.	9/26/67
3,344,209	33,096	FABRICATION OF MATERIALS BY HIGH ENERGY-RATE IMPACTION	J. R. Hague Golden, Colo. D. W. Brite Richland, Wash.	9/26/67
3,344,277	31,250	RADIATION MONITOR WITH BACKGROUND COMPENSATION	K. F. Smith J. B. Thompson Idaho Falls, Idaho	9/26/67
3,344,357	29,724	STORAGE RING	J. P. Blewett Bellport, N. Y.	9/26/67
3,344,853	31,749	APPARATUS FOR CONDENSING AND CONTROLLING THE RATE OF CONDENSATION OF AN ELECTRICALLY CONDUCTING LIQUID	R. M. Singer Naperville, Ill.	10/3/67
3,344,928	34,051	HUMIC ACID AS AN ADDITIVE IN A PROCESS OF FORMING A SALT-REJECTING MEMBRANE	K. A. Kraus J. S. Johnson A. J. Shor Oak Ridge, Tenn.	10/3/67
3,345,120	27,576	LIGH SPOT APPARATUS	R. B. Palmer Shoreham, N. Y.	10/3/67
3,345,127	29,776	PROCESS FOR RECOVERING BORON VALUES FROM SCRAP MATERIALS	A. R. Eberle M. W. Lerner S. Plainfield, N.J. L. J. Pinto Bound Brook, N. J.	10/3/67
3,345,436	27,010	PROCESS OF MAKING URANIUM MONONITRIDE NUCLEAR FUEL	R. A. Craig W. Hartford, Conn.	10/3/67
3,345,440	30,882	METHOD FOR MANUFACTURING FOAM CARBON PRODUCTS	J. H. Googin J. H. Napier Oak Ridge, Tenn. H. E. Scrivner Knoxville, Tenn.	10/3/67
3,345,575	30,911	PULSE MIDPOINT DETECTOR	J. H. M. van der Lans E. Patchogue, N.Y.	10/3/67
3,346,345	30,460	EXTRACTION OF PLUTONIUM AND NEPTUNIUM FROM AQUEOUS SOLUTIONS	W. W. Schulz Richland, Wash.	10/10/67

3,346,346	32,685	METHOD FOR MELTING URANIUM OXIDE AND PLUTONIUM OXIDE	L. Schikarski Hanau am Main, Germany H. J. Teiwes Ruckingen, Germany	10/10/67	3,349,607	31,638	ULTRASONIC FLAW DETECTION IN SMALL DIAMETER METAL TUBING	K. K. Klindt Knoxville, Tenn.	10/31/67
3,346,673	29,352	FORMATION OF SUBMICRON URANIUM CARBIDE PARTICLES IN METALLIC URANIUM	G. A. Last R. S. Kemper, Jr. Richland, Wash.	10/10/67	3,350,564	30,973	VOID DETECTION UTILIZING NEUTRON ATTENUATION	C. F. Bonilla Tenafly, N. J. W. T. Sha Pittsburgh, Pa.	10/31/67
3,346,681	32,348	METHOD OF MAKING REFRACTORY PRODUCTS	J. L. White Del Mar, Calif. J. M. Pontelandolfo San Diego, Calif.	10/10/67					
3,346,914	29,003	DEVICE FOR CONSOLIDATING METAL POWDERS	H. J. Sandstrom C. L. Terrell Los Alamos, N. Mex.	10/17/67					
3,347,135	32,965	FAST-ACTING CASCADE VALVE	D. R. Ahlbeck Worthington, Ohio H. A. Cress Columbus, Ohio	10/17/67					
3,347,711	29,443	RADIO-ISOTOPE THERMOELECTRIC APPARATUS AND FUEL FORM	H. O. Banks, Jr. Redondo Beach, Calif. E. T. Teatum I. R. Jones Livermore, Calif. Berkeley, Calif.	10/17/67					
3,347,768	30,439	ANODIC PROTECTION FOR PLATING SYSTEM	W. I. Clark D. D. Hays Kennewick, Wash. B. Griggs G. F. Jacky Richland, Wash.	10/17/67					
3,348,044	31,622	AIR SAMPLING METHOD AND APPARATUS	M. Sanders Knoxville, Tenn.	10/17/67					
3,348,141	31,993	TIME INTERVAL MEASUREMENT UTILIZING A TUNNEL DIODE SWITCHED BY REFLECTED PULSES FROM TRANSMISSION LINES	H. J. Jensen Davis, Calif. E. E. Smith Livermore, Calif.	10/17/67					
3,348,447	31,321	DETERMINATION OF ISOTOPIC CONCENTRATIONS	J. A. Goleb Naperville, Ill.	10/24/67					
3,348,943	32,877	REFRACTORY METAL DISPERSION	B. D. Pollock Los Angeles, Calif.	10/24/67					
3,349,304	30,151	LONGITUDINAL MOVEMENT MECHANISM	W. J. Wachter Pittsburgh, Pa.	10/24/67					
3,349,524	29,369	REACTOR CONTAINMENT VESSEL	S. H. Fistedis Park Ridge, Ill.	10/31/67					

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,336,749	429,249(60)	NUCLEAR ROCKET MOTOR	P. E. Rom Avon Lake, Ohio A. F. Lietzke R. E. Hyland Westlake, Ohio	8/22/67
3,341,420	492,771(60)	MODULAR FLUX TRAP REACTOR	R. H. Levy Woodland Hills, California	9/12/67
3,350,848	546,144(60)	CONTINUOUS SORPTION-DESORPTION SYSTEM AND METHOD	D. C. Brater J. Dykstra, Jr. S. H. Smiley Oak Ridge, Tenn. H. L. Kaufman Kingston, Tenn.	11/7/67
3,350,907	409,620(60)	METHOD FOR EXTRUDING MOLYBDENUM AND TUNGSTEN	R. E. McDonald C. F. Leitten, Jr. Oak Ridge, Tenn.	11/7/67
3,350,966	554,911(60)	AUTOMATIC DIGITAL TOOL-SETTING SYSTEM	C. L. Moulton Knoxville, Tenn.	11/7/67
3,351,424	361,629(60)	SEPARATION OF CERIUM FROM OTHER RARE EARTHS	L. A. Bray F. P. Roberts Richland, Wash.	11/7/67
3,351,532	488,487(60)	SEED-BLANKET CONVERTER-RECYCLE BREEDER REACTOR	H. F. Raab, Jr. G. H. Conley Pittsburgh, Pa. H. J. Calper McKeesport, Pa. D. H. Jones Pittsburgh, Pa. W. H. Hannum Los Alamos, N. Mex.	11/7/67
3,351,758	448,548	WINDOWLESS HIGH-RESOLUTION SOLID STATE RADIATION DETECTOR	G. A. Armantrout D. C. Camp Livermore, Calif.	11/7/67
3,351,852	392,348(60)	GRAPHICAL NULLING DEVICE FOR NONDESTRUCTIVE EDDY CURRENT TESTING EQUIPMENT	H. L. Libby Richland, Wash.	11/7/67
3,352,646	429,183(60)	PROCESS FOR PRODUCING "... H_2O_3 ' 11.8HF	R. S. Seigel Scarsdale, N. Y.	11/14/67
3,352,950	603,692(60)	ELECTRICAL POTENTIAL METHOD FOR DISPERSION OF METAL OXIDE MICROSPHERES	D. H. Helton Clinton, Tenn. R. G. Wymer Oak Ridge, Tenn.	11/14/67
3,352,991	438,435(60)	METHOD AND APPARATUS FOR MELTING METALS BY INDUCTION HEATING	P. G. Clites Silverton, Oregon	11/14/67
3,353,097	350,928(60)	METHOD AND APPARATUS FOR OPTICALLY DETERMINING THE ALIGNMENT OF MAGNETIC FIELDS UTILIZING THE COTTON-MOUTON EFFECT	R. H. Johnson Berkeley, Calif.	11/14/67
3,353,444	323,184(60)	SIMULTANEOUS CHARGE AND READ QUALITOMETER	J. W. Thoiring Pittsburgh, Pa.	11/21/67
3,353,566	619,135(60)	END CLOSURE FOR NUCLEAR REACTOR CHANNEL	M. D. Cepkauskas Farmington, Conn. J. P. Sohlin Wapping, Conn.	11/21/67
3,353,742	496,202(60)	BACK-STREAMING CONTROL IN A DIFFUSION PUMP	T. E. Bowman Berkeley, Calif. F. D. Kennedy Cerrito, Calif.	11/21/67
3,354,042	626,369(60)	STEAM SUPERHEATING NUCLEAR REACTOR HAVING STEAM FLOW EQUALIZER	T. B. Murdock San Jose, Calif.	11/21/67
3,354,290	446,134(60)	FORMING PROJECTIONS ON TUBES	R. E. Monroe J. J. Vagi Columbus, Ohio	11/21/67
3,354,538	510,153(60)	BERYLLIUM FOIL FABRICATION	J. L. Cadden D. H. Friar Oak Ridge, Tenn.	11/28/67
3,354,695	383,263(60)	UNIFORMLY TAPERED TRANSITION MANDREL	P. A. Szente Sao Jose dos Campos, Sao Paulo, Brazil	11/28/67
3,355,364	489,443(60)	PLURAL CONDUIT FLASH FILM EVAPORATOR FOR DISTILLING AND CONDENSING SEA WATER	R. P. Hammond Oak Ridge, Tenn.	11/28/67

3,355,586	420,835(60)	MODIFIED MAGNETIC MOMENTUM SLIT INCLUDING A PAIR OF C-TYPE MAGNETS	B. Hedin Geneva, Switzerland H. Brechna Palo Alto, Calif.	11/28/67
3,356,254	476,218(60)	GLOVE PORT FOR DRY BOX	W. W. Becker Shoreham, N. Y.	12/5/67
3,356,495	623,196(60)	METHOD FOR PRODUCING HIGH DENSITY TUNGSTEN INGOTS	J. F. Lakner Livermore, Calif. G. E. Zima Danville, Calif.	12/5/67
3,356,530	394,091(60)	RADIOMETRIC FILM	R. Withnell Manorville, N. Y.	12/5/67
3,356,580	577,777(60)	METHOD AND APPARATUS FOR CONTAINING RADIOACTIVE FLUID	F. R. Bell I. P. Arthur San Diego, Calif.	12/5/67
3,356,584	595,541(60)	FUEL PELLET FOR NUCLEAR REACTOR	C. E. Ockert Broomall, Pa.	12/5/67
3,356,585	637,881	VENTED FUEL SYSTEM	E. L. Zebroski Los Altos, Calif.	12/5/67
3,356,586	631,103(60)	FUEL ELEMENT CONTAINING ACTIVATED CARBON	J. F. Watson San Diego, Calif. W. V. Goeddel Poway, Calif.	12/5/67
3,356,776	584,065(60)	METHOD OF FABRICATING CERAMIC NUCLEAR FUEL PRODUCT	A. B. Meservey R. B. Fitts Oak Ridge, Tenn. J. D. Sease Knoxville, Tenn.	12/5/67
3,356,961	402,969(60)	VOLTAGE STRETCH CIRCUIT	J. W. Sedlmeyer Las Vegas, Nevada	12/5/67
3,356,976	507,256(60)	QUADRUPOLE MAGNET	W. B. Sampson Bellport, N. Y. R. B. Britton Setauket, N. Y. P. G. Kruger Champaign, Ill.	12/5/67
3,357,505	468,654(60)	HIGH TEMPERATURE ROCK DRILL	D. E. Armstrong Santa Fe, N. Mex. J. S. Coleman B. B. McInteer R. M. Potter E. S. Robinson Los Alamos, N. Mex.	12/12/67
3,357,854	407,940(60)	NICKEL PLATING PROCESS	D. D. Hays Kennewick, Wash.	12/12/67
3,357,866	428,888(60)	THERMOELECTRIC GENERATOR	H. Belofsky Verona, N. J.	12/12/67
3,357,890	596,016(60)	PRESSURE VESSEL THERMAL INSULATION	R. W. Friis J. E. Hench San Jose, Calif.	12/12/67
3,358,144	515,487	VARIABLE RADIATION LENGTH BUBBLE CHAMBER	M. Goldhaber Bayport, N. Y.	12/12/67
3,358,225	355,516(60)	LIFT-OFF COMPENSATION FOR EDDY CURRENT TESTERS	R. S. Peugeot Oak Ridge, Tenn.	12/12/67
3,358,245	399,413(60)	PHASE MODULATED SOLID STATE DEVICE	J. C. Pigg Oak Ridge, Tenn.	12/12/67
3,358,519	504,275(60)	RATCHET DRIVE	C. A. Christianson Southold, N. Y.	12/19/67
3,358,605	639,139(35)	PRESSURE SENSITIVE SWITCH	A. M. Ayers Estancia, N. Mex.	12/19/67
3,358,694	455,019	METHOD OF REDUCING IRRITANTS IN TOBACCO BY GAMMA IRRADIATION	H. V. Boenig W. A. Lambertson W. J. Braun H. S. Myers Lexington, Ky.	12/19/67
3,358,750	571,655(60)	CONDENSER TUBE	D. G. Thomas Oak Ridge, Tenn.	12/19/67
3,358,857	547,313(60)	LIFTING AN OBJECT CONTAINED IN A BAG	G. J. Vogel Elmhurst, Ill. E. L. Carls Glen Ellyn, Ill. W. A. Murphy Palos Heights, Ill.	12/19/67
3,359,054	411,167(60)	PROCESS FOR SEPARATING BERYLLIUM VALUES FROM AQUEOUS SOLUTIONS	D. J. Crouse, Jr. F. G. Seeley Oak Ridge, Tenn.	12/19/67
3,359,083	463,973(60)	COMPOSITE STRUCTURAL METAL MEMBERS WITH IMPROVED FRACTURE TOUGHNESS	H. L. Leichter Castro Valley, Calif.	12/19/67
3,359,117	604,493(60)	REMOVAL OF STRONTIUM 90 FROM MILK WITH CALCIUM PYROPHOSPHATE, STRONTIUM PYROPHOSPHATE, OR MIXTURE THEREOF	B. Van't Riet Richmond, Va.	12/19/67

3,359,173	628,789(60)	LIQUID EXCURSION PULSED REACTOR	L. D. P. King Santa Fe, N. Mex.	12/19/67	3,360,743	562,953(60)	DISTRIBUTED FEEDBACK STRIP TRANSMISSION LINE OSCILLATOR	M. D. Clark Albuquerque, N. Mex.	12/26/67
3,359,175	580,570(60)	NUCLEAR REACTOR	I. P. Arthur F. R. Bell San Diego, Calif.	12/19/67					
3,359,419	493,598(60)	RADIOGRAPHIC NONDESTRUCTIVE TESTING METHOD	J. Kastner Park Forest, Ill. H. Berger Naperville, Ill.	12/19/67					
3,359,421	499,118(60)	MAGNETOSTRICTIVE READOUT FOR WIRE SPARK CHAMBERS	V. Perez-Mendez Berkeley, Calif. J. M. Pfab Monrovia, Calif.	12/19/67					
3,359,452	496,197(60)	RESONATOR FOR SUPPORTING NON-SINUSOIDAL PERIODIC WAVEFORMS	Q. A. Kerns Orinda, Calif.	12/19/67					
3,359,621	488,291	METHOD OF MAKING A DEVICE FOR MONITORING SHUT-DOWN NUCLEAR REACTORS	F. B. Quinlan Richland, Wash.	12/26/67					
3,359,788	436,698(60)	ULTRASONIC MEASUREMENT OF SOLUTION CONCENTRATION	D. W. Colvin Clearwater, Fla.	12/26/67					
3,360,340	425,093(60)	DOUBLE PULSED MIXER-SETTLER LIQUID-LIQUID EXTRACTION SYSTEM	R. E. McHenry Oak Ridge, Tenn. J. C. Posey Knoxville, Tenn.	12/26/67					
3,360,477	435,761(60)	NEUTRON SOURCE	E. H. Acree Oak Ridge, Tenn. W. G. Tatum Lenoir City, Tenn.	12/26/67					
3,360,646	429,185(60)	UNIFORM GAMMA IRRADIATION OF BULK GRAIN MATERIAL	E. M. Reiback New York, N. Y. O. A. Kuhl Northport, N. Y.	12/26/67					
3,360,663	456,013(60)	HIGH-VOLTAGE GENERATOR	A. V. Crewe A. Yokosawa D. J. DeGeeter Argonne, Ill.	12/26/67					
3,360,678	459,484(60)	FAST PULSE GENERATOR UTILIZING AN ELECTRON BEAM TO CAUSE AN ABC BREAKDOWN ACROSS THE GAP REGION OF A COAXIAL LINE CENTER CONDUCTOR	Q. A. Kerns Orinda, Calif.	12/26/67					

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,345,143	401,214(60)	PRODUCTION OF STOICHIOMETRIC URANIUM MONOCARBIDE	E. W. Murbach Thousand Oaks, Calif.	10/3/67
3,360,947	546,478(60)	CRYOGENIC PHASE SEPARATOR	J. H. Fretwell H. K. Jennings Los Alamos, New Mex.	1/2/68
3,361,029	326,310(60)	OPTICAL SCANNING BACKGROUND DENSITY NORMALIZER	J. A. G. Russell Danville, Calif. F. D. Neu Richmond, Calif.	1/2/68
3,361,064	183,586(48)	ELECTRIC DETONATING APPARATUS	L. H. Johnston Minneapolis, Minn. R. Alldredge Denver, Colo.	1/2/68
3,361,149	500,453(60)	USE OF LIQUID HELIUM IN HYDRAULIC COMPUTERS	D. T. Meyer Durham, N. C.	1/2/68
3,361,637	577,094(60)	SHUTTER DEVICE FOR NUCLEAR REACTOR CORE	K. Dutta B. C. Hawke San Diego, Calif.	1/2/68
3,361,638	629,880(60)	PYROLYTIC GRAPHITE AND NUCLEAR FUEL PARTICLES COATED THEREWITH	J. C. Bokros San Diego, Calif. A. S. Schwartz Del Mar, Calif.	1/2/68
3,361,676	616,427(60)	URANIA SOL FORMING METHOD IN THE PRESENCE OF FORMIC ACID AND A PALLADIUM-ON-THORIA CATALYST	J. P. McBride Oak Ridge, Tenn. W. L. Pattison Knoxville, Tenn.	1/2/68
3,361,960	381,600(60)	PULSED NONDESTRUCTIVE EDDY CURRENT TESTING DEVICE USING SHIELDED SPECIMEN ENCIRCLING COILS	C. J. Renken, Jr. Orland Park, Ill. A. Sather Plainfield, Ill.	1/2/68
3,361,963	388,734(60)	PRECISION INDEXING POSITIONER	P. G. Watson Kensington, Calif.	1/2/68
3,362,141	551,184(60)	SURFACE CONTAMINATION SAMPLER	G. W. Royster, Jr. Oak Ridge, Tenn. B. R. Fish Knoxville, Tenn.	1/9/68
3,362,567	462,144(60)	COMPLIANT FLANGE VESSEL CLOSURE	E. R. Rudock Santa Cruz, Calif.	1/9/68
3,362,642	546,143(60)	APPARATUS FOR APPLYING LIQUID TO THE INTERIOR OF A VESSEL IN A SPIRAL SPRAY PATTERN	R. A. Freeman T. L. Murphy Idaho Falls, Idaho	1/9/68
3,362,791	391,811(60)	APPARATUS FOR SEPARATION OF IMMISCIBLE LIQUID PAIRS INCLUDING REMOTE INTERFACE CONTROL	A. D. Ryon Oak Ridge, Tenn.	1/9/68
3,362,914	646,158(60)	URANIUM CARBIDE-PLUTONIUM PHOSPHIDE AS A REACTOR FUEL	O. L. Kruger Westmont, Ill. J. B. Moser Evanston, Ill. J. W. Thompson Hinsdale, Ill. R. E. Mailhiot Palos Hills, Ill.	1/9/68
3,363,037	469,009(60)	HIGH-TEMPERATURE ISOSTATIC PRESSING OF ARTICLES	R. P. Levey, Jr. Oak Ridge, Tenn. A. E. Smith S. Clinton, Tenn.	1/9/68
3,363,130	504,276(60)	FREQUENCY TUNING OF AN ENERGETIC ARC DISCHARGE BY VARYING THE DIAMETER OF THE CYLINDRICAL HOLLOW ARC	J. W. Flowers Gainesville, Fla. W. A. Dunnill Tullahoma, Tenn.	1/9/68
3,363,149	456,875(60)	TRIP CIRCUIT	L. A. DeLateur Sunnyvale, Calif.	1/9/68
3,363,184	282,182(60)	POWER SCAVENGING DEQ'ING CIRCUIT FOR A LINE-TYPE PULSER	W. I. Smith Palmyra, N. J.	1/9/68
3,363,207	580,514(60)	COMBINED INSULATING AND CRYOGEN CIRCULATING MEANS FOR A SUPERCONDUCTIVE SOLENOID	H. Brechna Palo Alto, Calif.	1/9/68
3,363,304	446,133(60)	METHOD OF FABRICATING ZIRCONIUM-BERYLLIUM-EUTECTIC WIRE	F. B. Quinlan Richland, Wash.	1/16/68

3,364,355	473,568(60)	NEUTRON GENERATOR WITH OCCLUDED GAS ION SOURCE	L. Ruby J. B. Rechen Berkeley, Calif. T. Vuletich Piedmont, Calif. D. K. Wells Concord, Calif.	1/16/68	3,367,223	519,393(60)	SEMICONDUCTOR LEAD CUTTER	G. P. Caraisco V. P. Elischer El Cerrito, Calif.	2/6/68
					3,367,398	498,166(60)	METHOD OF PREVENTING SEGREGATION DURING CASTING OF COMPOSITES	R. E. Riley H. Sheinberg Los Alamos, N. Mex.	2/6/68
3,364,636	556,785(60)	SUPPORT FOR CHARGED PARTICLE ACCELERATOR MAGNET SECTIONS	W. W. Salsig, Jr. Kensington, Calif.	1/23/68	3,367,826	364,342(60)	BORON CARBIDE ARTICLE AND METHOD OF MAKING	R. L. Heestand C. F. Leitten, Jr. Oak Ridge, Tenn.	2/6/68
3,365,573	425,090(60)	METHOD OF SEPARATING OF SILICON ISOTOPES USING SILICON DISULFIDE AS THE FEED MATERIAL	W. C. Davis C. W. Sheridan J. G. Tracy Oak Ridge, Tenn.	1/23/68	3,367,849	353,646(60)	AMPEROMETRIC DETERMINATION OF GLUCOSE	W. J. Blaedel Madison, Wis. C. L. Olson Columbus, Ohio	2/6/68
3,365,978	536,950(60)	ADJUSTING DEVICE FOR REMOTE CONTROL MANIPULTORS	R. K. Kirby C. D. Wicker Knoxville, Tenn.	1/30/68	3,367,881	643,329(60)	EXTRACTION METHOD FOR PREPARING UO_2 MICROSPHERES	L. E. Morse Oak Ridge, Tenn.	2/6/68
3,366,320	473,880(60)	CENTRIFUGE SAMPLE HOLDER	N. Cho Knoxville, Tenn.	1/30/68	3,368,066	345,055(60)	FAST MULTIPLIER EMPLOYING FIELD-EFFECT TRANSISTORS	G. L. Miller Westfield, N. J. V. Radeka E. Patchoguo, N. Y.	2/6/68
3,366,544	471,772(60)	METHOD OF AND APPARATUS FOR CONTROLLING START-UP OF A NUCLEAR REACTOR	W. L. Bunch Richland, Wash.	1/30/68	3,368,135	422,469(60)	OVERVOLTAGE PROTECTION CIRCUIT FOR CONDENSER DISCHARGE SYSTEM	A. E. Schofield R. O. Holm Los Alamos, N. Mex.	2/6/68
3,366,549	562,949(60)	GAS-COOLED NUCLEAR REACTOR	K. A. Trickett Rockville, Md. M. T. Simnad San Diego, Calif. G. J. Malek Poway, Calif.	1/30/68	3,368,877	514,408(60)	PLUTONIUM CARBONITRIDE	J. L. Guyton Amarillo, Tex. M. A. Thompson Boulder, Colo.	2/13/68
3,366,576	588,679(60)	HIGH DENSITY CERAMIC BERYLLIA-NUCLEAR FUEL COMPACT CONTAINING AN ADDITIVE FOR THE RETENTION OF FISSION PRODUCTS	R. A. Meyer San Diego, Calif. F. H. Lofftus Del Mar, Calif.	1/30/68	3,368,979	637,042(60)	NUCLEAR FUEL COMPOSITION FOR MULTIPLICATION DETERMINATION IN REACTORS AND DRIVING SUBCRITICAL LATTICES	H. A. Robkin Castro Valley, Calif. C. R. Porter Livermore, Calif.	2/13/68
					3,369,140	313,134(60)	ANNULAR CONFINEMENT OF HIGH TEMPERATURE PLASMAS	H. P. Furth Berkeley, Calif.	2/13/68
3,366,794	290,869(60)	SCANNING APPARATUS FOR AIDING IN THE DETERMINATION OF POINT CO-ORDINATES OF PATHS OF CHARGED PARTICLES AS RECORDED ON PHOTOGRAPHIC FILM	L. W. Alvarez Berkeley, Calif.	1/30/68	3,369,401	574,274(60)	TEMPERATURE-GRADIENT-INSENSITIVE RESISTANCE-TYPE LIQUID METAL LEVEL DETECTOR	N. H. Briggs Oak Ridge, Tenn. C. M. Burton G. W. Greene Knoxville, Tenn.	2/20/68
3,366,873	580,155(60)	LINEAR RESPONSIVE MOLTEN METAL LEVEL DETECTOR	W. R. Miller Concord, Tenn. L. H. Thacker Knoxville, Tenn.	1/30/68	3,369,889	651,630(60)	PRODUCTION OF SPHEROIDAL URANIUM METAL POWDER	P. E. Trent Norris, Tenn.	2/20/68

3,369,890	619,130(60)	METHOD FOR MAKING NIOBIUM-URANIUM ALLOY WITH PREDETERMINED TOTAL VOID VOLUME AND VOID SIZE	H. A. Wilhelm J. K. McClusky Ames, Iowa	2/20/68
3,370,016	619,131(60)	PREPARATION OF DENSE THORIA AND SULFATE CONTAINING THORIA FROM AN AQUEOUS THORIUM NITRATE SOLUTION	G. C. Briggs Cincinnati, Ohio	2/20/68
3,371,405	420,843(60)	METHOD OF PRODUCING POROUS NICKEL BODIES	A. L. Klibanoff Boston, Mass.	3/5/68
3,371,558	529,179(60)	ROTARY DRILLING DEVICE	C. Asmanes Oak Ridge, Tenn.	3/5/68
3,372,004	538,169(60)	PROCESS FOR MAKING POROUS SODIUM FLUORIDE PELLETS	E. W. Richardson Paducah, Ky. L. R. McReese Oak Ridge, Tenn.	3/5/68
3,372,127	432,436(60)	BORON-LOADED LIQUID SCINTILLATOR	G. E. Thomas, Jr. Naperville, Ill. H. E. Jackson, Jr. Elmhurst, Ill.	3/5/68
3,372,274	523,513(60)	INERT RADIOACTIVE FISSION GAS SAMPLES	R. R. Landolt W. Lafayette, Ind.	3/5/68
3,372,275	554,292(60)	NEUTRON FILM DOSIMETER USING MULTIPLE FILTERS	L. F. Kocher Richland, Wash.	3/5/68
3,372,276	457,881(60)	METHOD AND SYSTEM FOR THE NON-DESTRUCTIVE INSPECTION OF VARIABLE DENSITY PLATES	J. W. Reynolds Oak Ridge, Tenn. H. J. Stripling, Jr. Knoxville, Tenn.	3/5/68
3,372,290	455,020(60)	ELECTRICAL GENERATOR	E. S. Sowa Westmont, Ill. C. J. Divona Lockport, Ill.	3/5/68
3,372,295	533,837(60)	AIR PROPORTIONAL ALPHA DETECTOR	J. R. Sparks Albuquerque, N. Mex.	3/5/68
3,373,969	493,597(60)	VALVE FOR VACUUM SERVICE	M. J. Teitt Trafford, Pa.	3/19/68
3,374,069	624,667(60)	PREPARATION OF METAL CARBONATES BY CO_2 - PRESSURIZING ANHYDROUS METAL ACETATES	E. L. Head Los Alamos, N. Mex.	3/19/68
3,374,092	502,707(60)	HIGH TEMPERATURE BRAZING ALLOYS FOR TUNGSTEN AND TANTALUM AND ALLOYS THEREOF	J. C. Marshall Pottstown, Pa.	3/19/68
3,374,149	641,425(60)	NUCLEAR REACTOR HEAT TRANSFER SYSTEM	H. C. Parris Los Angeles, Calif.	3/19/68
3,374,157	457,872(60)	ELECTROLYTE FOR THE ELECTRODEPOSITION OF TECHNETRIUM	W. D. Box Oak Ridge, Tenn.	3/19/68
3,374,355	649,413(35)	MAGNETIC FOCUSING OF X-RAY TUBES AND SYSTEM FOR OPERATING	L. G. Parrott T. R. Cuykendall K. I. Greisen L. T. Finlayson F. Roines Santa Fe, N. Mex.	3/19/68
3,374,356	651,280(35)	MAGNETIC INDUCTION ACCELERATOR WITH MEANS TO DEFLECT ACCELERATED ELECTRONS TO AN X-RAY TARGET	D. W. Kerst Urbana, Ill.	3/19/68
3,374,378	654,039(60)	ACCELERATION OF HEAVY PARTICLES	E. D. Courant Bayport, N. Y.	3/19/68
3,374,408	457,880(60)	TRANSISTOR HAVING CONSTANT GAIN OVER A BROAD TEMPERATURE RANGE	H. H. Sander Albuquerque, N. Mex.	3/19/68
3,374,409	491,062(60)	FAST VERTICAL STROKE MOVING COIL TRANSDUCER	A. J. Gorka Naperville, Ill.	3/19/68
3,375,149	23,865(48)	PLUTONIUM ETCHING PROCESS	H. Kolodney New York, N. Y.	3/26/68
3,375,369	471,777(60)	MATRIX CORRECTED X-RAY FLUOROMETRIC ANALYSIS METHOD	H. Goldman R. P. Anderson Davis, Calif.	3/26/68
3,375,372	538,917(60)	PHOTO-STIMULATED RADIATION DOSIMETRY	K. Miyashita State College, Pa.	3/26/68
3,375,452	609,730(60)	FERRITE ADJUSTABLE KICKER MAGNET FOR EXTRACTING BEAMS OF CHARGED PARTICLES	E. B. Forsyth Brookhaven, N. Y.	3/26/68

VOL. XVIII PATENTS FOR LICENSING No. 2

June 25, 1968

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,358,145	422,100(60)	RADIATION DETECTOR READ-OUT SYSTEM	K. D. Cashion Friendswood, Tex. B. R. Baker Houston, Tex.	12/12/67
3,374,148	658,954(60)	NUCLEAR REACTOR CORE FOR A ROCKET	F. E. Roe Avon, Lake, Ohio A. F. Lietzke R. E. Hyland Westlake, Ohio	3/19/68
3,375,664	569,760(60)	CONVECTION CURRENT POWER GENERATOR	W. H. Wells, Jr. Livermore, Calif.	4/2/68
3,375,676	642,289(60)	METHOD OF STORING HYDROGEN	J. J. Reilly, Jr. Bellport, N. Y. R. H. Wiswall, Jr. Brookhaven, N. Y.	4/2/68
3,376,116	614,782(60)	FLUID BED DENITRATION OF THORIUM NITRATE	W. J. Robertson Overland, Mo. G. E. Kerr St. Louis, Mo.	4/2/68
3,376,414	461,568(60)	CALUTRON WITH MEANS TO DIRECT CALCUIM GETTERING VAPOR INTO THE ION BEAM TO REDUCE TANK PRESSURE	W. A. Bell, Jr. K. A. Spainhour A. M. Veach Oak Ridge, Tenn.	4/2/68
3,376,440	488,295(60)	LIQUID METAL PISTON MHD GENERATOR	J. P. Palmer Setauket, N. Y.	4/2/68
3,376,470	479,355(60)	CAPACITOR DISCHARGE CIRCUIT FOR STARTING AND SUSTAINING A WELDING ARC	C. C. Stone R. H. Olp Downers Grove, Ill. G. J. Pokoray Glen Ellyn, Ill.	4/2/68
3,376,544	571,155(60)	ELECTRICAL CONNECTOR	D. M. Locke White Rock, N. Mex.	4/2/68
3,377,251	642,660(60)	NUCLEAR REACTOR FOR USE IN SPACE	H. E. Hanthorn H. Harty Richland, Wash.	4/9/68
3,377,257	23,861(48)	ELECTROLYTIC PROCESS FOR CLEANING PLUTONIUM METAL	M. Kolodney New York, N. Y.	4/9/68
3,377,355	461,564(60)	METHOD OF CALIBRATING HIGH-VOLTAGE PRECISION RESISTANCE POTENTIAL DIVIDERS	R. N. Lewis Claredon Hills, Ill.	4/9/68
3,377,694	495,359(60)	EXPLOSION WELDING OF INCOMPATIBLE METALS	C. C. Simons Kennewick, Wash. R. L. Bradford Columbus, Ohio	4/16/68
3,377,871	71,404(48)	PORTABLE TIMING MECHANISMS	P. F. Bechberger Tenafly, N. J. J. A. Howe Wood Ludge, N. J. H. Drown New York, N. Y.	4/16/68
3,377,886	569,758(60)	SPEED REDUCER	C. E. Frantz F. F. Vlacil Richland, Wash.	4/16/68
3,378,416	324,169(60)	NOVEL HIGH EXPLOSIVE COMPOSITIONS	C. W. Schoenfelder Livermore, Calif. D. D. Perry Morristown, Calif. M. M. Foin Westfield, N. J.	4/16/68
3,378,449	656,996(60)	NUCLEAR REACTOR ADAPTED FOR USE IN SPACE	J. J. Roberts Chicago, Ill. E. J. Croke River Forest, Ill.	4/16/68
3,378,453	565,012(60)	HIGH HEAT FLUX NEUTRONIC FUEL ELEMENT	C. E. Corker Cincinnati, Ohio	4/16/68
3,378,478	260,086(60)	APPARATUS FOR CONTINUOUS OXYGEN MONITORING OF LIQUID METALS	M. Kolodney River Edge, N. J. H. Steinmetz Monsey, N. Y.	4/16/68
3,378,685	457,538(60)	INFRARED NONDESTRUCTIVE TESTING TECHNIQUE INDEPENDENT OF SAMPLE SURFACE EMISSIVITY	D. E. Green H. L. Libby Richland, Wash.	4/16/68
3,378,778	577,782(60)	APPARATUS FOR DAMPING AXIAL COHERENT BEAM INSTABILITIES IN A SYNCHROTRON PARTICLE ACCELERATOR	J. H. Martin Lisle, Ill. R. A. Winje Naperville, Ill. R. H. Hilden Minneapolis, Minn. F. E. Mills Madison, Wis.	4/16/68

3,379,051	490,148(60)	MULTIPLE BEAM ULTRASONIC NON-DESTRUCTIVE TESTING DEVICE	M. F. Zeutschel Kennewick, Wash. N. E. Dixon Pasco, Wash.	4/23/68
3,379,460	534,977(60)	COUPLING AND SEAL FOR CONDUITS	R. J. Allyn Bellevue, Wash.	4/23/68
3,379,585	205,834(48)	CAST EXPLOSIVES COMPRISING CYCLOTRIMETHYLENE TRINITRAMINE AND NITROTOLUENES	C. L. Miller Los Alamos, N. Mex. J. L. Stark St. Paul, Minn.	4/23/68
3,379,614	522,116(60)	NUCLEAR REACTOR FUEL CHANNEL ASSEMBLY	C. N. Drummond Chappaque, N. Y.	4/23/68
3,379,648	599,977(60)	SEPARATION OF TRIVALENT 4f RARE EARTHS FROM MOLTEN FLUORIDE COMPOSITIONS WITH UF_3	H. F. McDuffie Oak Ridge, Tenn.	4/23/68
3,379,760	477,623(60)	2-BROMOACETAMIDO-4-NITROPHENOL	M. Burr New York, N. Y. D. E. Koshland, Jr. Bellport, N. Y.	4/23/68
3,379,880	435,101(60)	DEVICE FOR FORMING REPLICA IMAGES OF PARTICLE DISTRIBUTION IN A PLASMA STREAM	F. H. Coensgen Pleasanton, Calif. W. F. Cummins W. E. Nexsen, Jr. Livermore, Calif.	4/23/68
3,379,988	416,170(60)	COMPLEMENTARY PAIR FEEDBACK AMPLIFIER	R. H. Graham (deceased) Glastonbury, Conn.	4/23/68
3,380,584	461,566(60)	PARTICLE SEPARATOR	M. J. Fulwyler Los Alamos, N. Mex.	4/30/68
3,380,761	475,298(60)	QUICK DISCONNECT COUPLING DEVICE	R. R. VanDevender, Jr. China Lake, Calif.	4/30/68
3,380,805	506,913(60)	RARE EARTH SUBOXIDES	A. E. Miller Ames, Iowa	4/30/68
3,380,865	23,862(48)	PLUTONIUM ETCHING	M. Kolodney New York, N. Y.	4/30/68
3,380,893	481,991(60)	METHOD OF INTRODUCING A COLORED GROUP SENSITIVE TO pH CHANGES INTO ENZYMES BY REACTING WITH 2-METHOXY-5-NITRO-BENZYL BROMIDE	D. E. Koshland, Jr. H. G. Latham E. Patchogue, N. Y. H. R. Horton Raleigh, N. C.	4/30/68
3,380,916	455,015(60)	ION EXCHANGE PROCESS	H. Katz Port Jefferson, N. Y. M. Rothbart Shoreham, N. Y.	4/30/68
3,381,234	419,256(60)	PUSH-PULL EMITTER FOLLOWER CIRCUIT	R. Zane Richmond, Calif.	4/30/68
3,381,367	566,165(60)	SEMICONDUCTOR DETECTOR METHOD AND APPARATUS	G. L. Miller Babylon, N. Y. S. E. Wagner Brookhaven, N. Y.	5/7/68
3,382,161	452,948(50)	ELECTROLYTIC SEPARATION OF TRANSITION METAL OXIDE CRYSTALS	W. Kunmann Port Jefferson Station, N. Y. A. Ferretti Cambridge, Mass. R. J. Arnott Waltham, Mass. D. B. Rogers Forge Village, Mass.	5/7/68
3,382,164	428,260(60)	SEPARATION OF CESIUM AND STRONTIUM BY ELECTRODIALSIS	W. H. Webb H. C. Hershey R. D. Mitchell Rolla, Mo.	5/7/68
3,382,359	470,651(60)	CALUTRON ION SOURCE HAVING A MOVABLE BAFFLE FOR IMPROVING THE ION OUTPUT	J. V. Lee Oak Ridge, Tenn.	5/7/68
3,382,500	553,608(60)	COORDINATE CONVERTER	A. Mayer New Gardens, N. Y.	5/7/68
3,383,032	613,053(60)	VACUUM PUMPING METHOD AND APPARATUS	M. Milleron Berkeley, Calif.	5/14/68
3,383,286	583,139(60)	CORE ELEMENT HANDLING SYSTEM	J. A. Paget Poway, Calif.	5/14/68
3,383,439	440,965(60)	PROCESS FOR MAKING GRAPHITE	G. R. Tully, Jr. L. Bailey Poway, Calif. A. S. Schwartz Del Mar, Calif.	5/14/68
3,383,590	450,561(60)	RESONANT CAVITY-TYPE MONITOR FOR MEASURING THE BUNCH LENGTH OF A BEAM OF CHARGED PARTICLES IN A PARTICLE ACCELERATOR	R. F. Koontz Menlo Park, Calif. R. H. Miller Mountain View, Calif.	5/14/68

3,383,858	604,294(48)	NUCLEAR ROCKET ENGINE	M. I. Willinski Northridge, Calif. E. A. Lamont Woodland Hills, Calif.	5/21/68
3,384,751	455,351(60)	BEAM PORT CLOSURE FOR NUCLEAR REACTOR	E. D. Sperry, II Ridge, N. Y.	5/21/68
3,384,849	554,290(60)	CRYOGENIC FLUX CONCENTRATOR	H. Brechna Paris, France D. A. Hill Summitt, N. J.	5/21/68
3,385,759	637,880(60)	FAST BURST NEUTRONIC REACTOR	E. S. Bettis Knoxville, Tenn. J. H. Westsik Richland, Wash.	5/28/68
3,386,040	477,625(60)	PARTICLE ACCELERATOR INCLUDING MEANS FOR TRANSFERRING PARTICLES BETWEEN ACCELERATOR AND STORAGE RING	A. W. Maschke Rocky Point, N. Y.	5/28/68
3,386,276	372,423(60)	DEVICE FOR FORMING SMALL DIAMETER TUBING	G. F. Erickson Los Alamos, N. Mex.	6/4/68
3,386,627	578,902(60)	CONTROLLED UNLOADING OF GEOMETRICALLY ORDERED PACKED BEDS	H. Susskind Huntington, N. Y. W. W. Becker Shoreham, N. Y. M. W. Maresca (deceased) by M. Maresca, Administratrix E. Patchogue, N. Y.	6/4/68
3,386,812	516,148(60)	CASTABLE MACHINE TOOL BIT COMPOSITION OF BORON CARBIDE AND NICKEL	H. Sheinberg Los Alamos, N. Mex.	6/4/68
3,387,079	434,720(60)	PROCESS FOR THE FUSION OF METAL OXIDES	W. Hoppe Grossauheim uber Hanau, Germany H. Miller Wolfang uber Hanau, Germany W. in der Schmitten Hanau am Main, Germany	6/4/68
3,387,136	607,609(60)	"ON-077" X-RAY SOURCE	E. H. Acree F. H. Case Oak Ridge, Tenn. J. C. Dempsey Frederick, Md.	6/4/68
3,387,174	654,281(60)	METHOD AND APPARATUS FOR REMOVING IMPURITY GAS PARTICLES FROM A PARTICLE BEAM	R. F. Post Walnut Creek, Calif.	6/4/68
3,387,370	578,432(60)	APPARATUS FOR MEASURING INCREMENTAL RADIAL DISPLACEMENT OF A CHANNEL WALL	B. B. Brenden J. C. Spanner Richland, Wash.	6/11/68
3,387,969	476,767(60)	OXYGEN SCAVENGING METHOD	S. B. Skladzien Elmhurst, Ill.	6/11/68
3,388,008	451,367(60)	THERMOELECTRIC GENERATOR	R. J. Campana Solano Beach, Calif. J. C. Malcher El Cajon, Calif. P. S. Merrill W. E. Sargent San Diego, Calif.	6/11/68
3,388,011	494,284(60)	PROCESS FOR THE PRODUCTION OF HIGH STRENGTH STEELS	V. F. Zackay Berkeley, Calif. E. R. Parker Orinda, Calif.	6/11/68
3,388,254	577,776(60)	METHOD FOR DETERMINING THE AMOUNT OF CESIUM-137 IN IRRADIATED NUCLEAR FUEL	W. A. Haller R. W. Perkins J. M. Nielsen Richland, Wash.	6/11/68
3,388,321	371,164(60)	MAGNETO-PLASMA WAVE DEVICE	R. Bowers J. R. Houck Ithaca, N. Y.	6/11/68
3,388,359	613,047(60)	PARTICLE BEAM FOCUSSING MAGNET WITH A SEPTUM WALL	G. R. Lambertson Oakland, Calif.	6/11/68
3,389,053	643,025(60)	EXPANDED BED NUCLEAR REACTOR FUEL MODULE	H. V. Chamberlain Royal Oak, Mich. J. J. Edwards Southfield, Mich. E. C. Kovacic Trenton, Mich.	6/18/68
3,389,054	643,026(60)	RADIAL SPLIT FLOW BREEDER REACTOR	E. C. Kovacic Trenton, Mich.	6/18/68
3,389,254	681,042(60)	METHOD AND APPARATUS FOR NONDESTRUCTIVE DETERMINATION OF U^{235} IN URANIUM	J. T. Russell Richland, Wash.	6/18/68

3,389,606	428,998(60)	TIME RESOLVING MECHANICAL ACCELEROMETER	B. C. Watson Cambridge, Mass.	6/25/68
3,390,078	425,664(60)	SEPARATING SALTS HAVING INVERTED SOLUBILITY CURVES	L. P. Hatch Brookhaven, N. Y.	6/25/68
3,390,270	502,698(60)	DEVICE FOR SENSING THERMAL NEUTRONS AND UTILIZING SUCH NEUTRONS FOR PRODUCING AN ELECTRICAL SIGNAL	R. L. Treinen Forest Park, Ohio R. H. Stentz Mt. Healthy, Ohio	6/25/68

VOL. XVIII PATENTS FOR LICENSING No. 3

September 24, 1968

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,346,461	532,418(60)	NUCLEAR REACTOR FUEL ELEMENT	G. V. Notari Simsbury, Conn. F. T. Grubelich Wethersfield, Conn.	10/10/67
3,378,455	610,725(60)	REACTOR FUEL ELEMENT FOR A NUCLEAR ROCKET MOTOR	F. E. Rom Avon Lake, O. A. F. Lietzke R. E. Hyland Westlake, O.	4/16/68
3,390,449	566,091(60)	METHOD FOR PREPARATION AND ENCAPSULATION OF GERMANIUM GAMMA RAY DETECTORS	E. J. Fox Oak Ridge, Tenn.	7/2/68
3,390,559	665,204(60)	PIEZOMECHANICAL LOCKING MECHANISM	O. H. Steutzer Albuquerque, N. Mex.	7/2/68
3,391,238	433,526(60)	PREPARATION FOR MELTING OF METALS AND COMPOUNDS WITH HIGH MELTING POINTS	P. Hirschstein Frankfurt am Main, Germany Horst Köhn Hanau am Main, Germany H. Wille Wolfgang, near Hanau, Germany	7/2/68
3,391,804	550,216(60)	COUNTERBALANCED MANIPULATOR	C. R. Flatau Shoreham, N. Y.	7/9/68
3,391,857	577,118(60)	PREHEATER FOR DIFFUSION PUMP	L. R. Lucas Palo Alto, Calif. R. M. Reimers Oakland, Calif.	7/9/68
3,392,005	645,570(60)	PREPARATION OF HIGH QUALITY URANIUM CARBIDE	L. A. Hanson Canoga Park, Calif.	7/9/68
3,392,280	616,425(60)	MASS SPECTROMETER UTILIZING AN ION BEAM FOR IONIZING THE GAS TO BE ANALYZED	L. Friedman Patchogue, N. Y. T. F. Moran Decatur, Ga. J. J. Leventhal Mt. Sinai, N. Y.	7/9/68

3,392,494	511,289(60) GRINDING DEVICES	W. T. Van Lierde Mechelen, Belgium	7/16/68
3,392,573	377,780(60) AEROSOL FILTER TEST DEVICE	A. L. Benson Concord, Mass. W. J. Smith Arlington, Mass. H. F. Surprenant Littleton, Mass.	7/16/68
3,392,910	304,031(60) SEAL	E. W. Tanzberger Allegany, N. Y.	7/16/68
3,393,256	860,882(60) PROCESS FOR MAINTAINING STRAIGHTNESS IN EXTRUDED CERAMIC SECTIONS	M. J. Zambernard Homer City, Pa.	7/16/68
3,393,315	493,594(60) HIGH-SPEED, HIGH SENSITIVITY, IONIZING RADIATION DETECTOR	R. J. Locker King of Prussia, Pa. G. C. Ruth Rosemont, Pa.	7/16/68
3,393,318	531,327(60) IDENTIFICATION BADGE DOSIMETER	W. J. Brady G. K. Iverson Las Vegas, Nevada	7/16/68
3,393,385	574,818(60) QUADRUPOLE MAGNET WITH REDUCED FIELD DISTORTION	G. T. Danby Wading River, N. Y. J. W. Jackson Medford, N. Y.	7/16/68
3,393,386	593,601(60) SEMICONDUCTING SHUNTS FOR STABILIZING SUPERCONDUCTING MAGNET COILS	R. E. Hintz Concord, Calif.	7/16/68
3,393,588	534,976(60) SPINDLE GROWTH COMPENSATING SYSTEM	F. H. Broome Oak Ridge, Tenn.	7/23/68
3,393,600	486,575(60) OPTICAL RANGING APPARATUS	L. Bass Terra Haute, Ind.	7/23/68
3,394,049	671,500(60) NUCLEAR REACTOR CORE CONFIGURATION	R. H. Jones Gaithersburg, Md.	7/23/68
3,394,050	626,370(60) METHOD OF OPERATING A NEUTRONIC REACTOR FOR REFORMING GAS MIXTURES AND PRODUCING HEAT FOR MULTI-PURPOSES	E. F. Miller Rockville, Md.	7/23/68
3,394,304	490,146(60) ULTRASTABLE EDDY CURRENT NON-DESTRUCTIVE TESTING APPARATUS	D. R. Green Richland, Wash.	7/23/68
3,394,996	668,239(60) FLUORIDE ADSORPTION BY THORIUM OXIDE IN AQUEOUS THORIUM NITRATE SOLUTIONS	R. C. Kispert T. R. Kato Cincinnati, O.	7/30/68
3,395,075	668,673(60) COOLING SYSTEM IN A NUCLEAR REACTOR UTILIZING CONCRETE PRESSURE VESSEL	J. E. Hench San Jose, Calif.	7/30/68
3,395,294	442,837(60) HIGH SPEED AMPLIFIER-DISCRIMINATOR WITH WIDE DYNAMIC RANGE	F. H. Savada Scotia, N. Y.	7/30/68
3,395,339	522,327(60) TOROIDAL EDDY CURRENT NONDESTRUCTIVE TESTING PROBE	R. L. Brown, Jr. Richland, Wash.	7/30/68
3,395,647	596,014(60) JET PUMP	W. J. Clabaugh Los Gatos, Calif.	8/6/68
3,395,991	644,466(60) RECOVERY OF PROTACTINIUM FROM MOLTEN FLUORIDE SALTS	W. R. Grimes J. H. Shaffer Oak Ridge, Tenn.	8/6/68
3,395,992	609,732(60) CONCENTRATION OF TRANSPLUTONIUM ACTINIDES FROM DIRT SAMPLES	W. R Daniels K. Wolfsberg Los Alamos, N. Mex.	8/6/68
3,396,080	656,965(60) TUNGSTEN-RHENIUM COATED CERAMIC REACTOR FUEL PARTICLES	C. E. Harrin, Jr. Oak Ridge, Tenn.	8/6/68
3,396,187	372,420(60) B-DI AND TRINITRO CARBONATES AND METHOD FOR THEIR PRODUCTION	T. M. Benziger L. W. Kissinger H. E. Ungnade Los Alamos, N. Mex.	8/6/68
3,396,200	644,442(60) PREPARATION OF 2, 4, 6-TRICHLORONITROBENZENE	R. S. George R. K. Rohwer Los Alamos, N. Mex.	8/6/68
3,396,259	483,893(60) METHOD FOR ELECTRO-DISCHARGE MACHINING	D. S. Easton Lenoir City, Tenn.	8/6/68
3,396,272	406,311(60) ISOTOPE-POWERED X-RAY INSTRUMENT FOR DETECTING THE ARRIVAL OF AN INTERFACE IN A PIPELINE	D. M. Olson Santa Fe, N. Mex.	8/6/68
3,396,375	457,535(60) FAIL-SAFE ALARM SYSTEM	D. D. Low Oakland, Calif.	8/13/68
3,396,893	591,349(60) FRICTION WELDER	H. A. Cress J. T. Walls Columbus, O.	

3,397,041	559,352(60)	SULFUR PURIFICATION BY FRACTIONAL CONDENSATION	R. D. Rivers Kingston, Tenn.	8/13/68	3,398,549	614,534(60)	APPARATUS FOR REGULATING AT LOW TEMPERATURES	W. Zobel Oak Ridge, Tenn.	8/27/68
3,397,075	429,689(60)	PROCESS OF VAPOR COATING NUCLEAR FUEL WITH BERYLLIUM OXIDE AND CARBON	M. F. Browning W. J. Wilson Columbus, O.	8/13/68	3,398,572	618,283(60)	TRANSDUCER FOR MEASUREMENT OF TRANSIENT VELOCITIES	K. O. Johnson D. L. Robinson Idaho Falls, Idaho	8/27/68
3,397,131	411,168(60)	METHOD OF PREPARING ORGANOTIN COMPOUNDS	J. G. Kircher Worthington, O. J. L. McFarling E. J. Kahler Columbus, O. R. E. Wyant Delaware, O.	8/13/68	3,398,578	522,797(60)	SELF-CALIBRATING LIQUID-LEVEL-MEASURING DEVICE	B. E. Dozer Richland, Wash.	8/27/68
					3,398,582	569,555(60)	METHOD FOR MEASUREMENT OF VACUUM PRESSURE	R. H. McFarland Livermore, Calif.	8/27/68
3,397,298	491,234(60)	WELDING TORCH	I. V. Nelson Richland, Wash.	8/13/68	3,398,718	438,800(60)	FLUIDIZED-BED COATING APPARATUS	R. L. Pilloton Oak Ridge, Tenn.	8/27/68
3,397,813	602,423(60)	DUMPING CONSTRUCTION	W. S. Kelly Richland, Wash. F. M. Weidling Kirkland, Wash. R. A. Hemphill Los Alamos, N. Mex.	8/20/68	3,399,315	489,439(60)	ONCE-THROUGH LIQUID METAL PISTON MHD GENERATOR	J. R. Powell, Jr. Rocky Point, N. Y.	8/27/68
					3,399,386	534,973(60)	APPARATUS FOR DELAYING A CONTINUOUS ELECTRICAL SIGNAL	R. A. Walker Pasco, Wash.	8/27/68
					3,401,008	490,750(60)	PREPARATION OF THE CARBONATES OF THE RARE EARTHS	E. L. Head Los Alamos, N. Mex.	9/10/68
3,397,862	514,411(60)	WEDGE GATE VACUUM VALVE MECHANISM WITH COATED SEAT SEAL	T. H. Batzer J. J. Murphy Livermore, Calif. C. A. Gunderson San Leandro, Calif.	8/20/68	3,401,260	591,012(60)	COROSIVE LIQUID FLOW METER	D. M. Holm J. E. Deverall Los Alamos, N. Mex.	9/10/68
3,397,869	637,041(60)	HYDROFOIL AGITATOR BLADE	D. S. Webster Aiken, S. C.	8/20/68	3,402,027	707,466(60)	METHOD OF SEPARATING BERKELIUM FROM CERIUM	F. L. Moore Knoxville, Tenn.	9/17/68
3,398,064	377,144(60)	SCANNING-COULOMETRY METHOD AND APPARATUS	R. C. Propst Aiken, S. C.	8/20/68	3,402,065	140,148(48)	PHENYLOXYALKANOL COATING OF PARTICLE	L. McDonald Inyokern, Calif. H. A. MacLeod Altadena, Calif.	9/17/68
3,398,098	645,579(60)	PREPARATION OF PURE DENSE HYPOSTOICHIOMETRIC URANIUM CARBIDE	L. A. Hanson Canoga Park, Calif.	8/20/68	3,402,293	594,632(60)	COMPRESSED LITHIUM FLUORIDE DOSIMETER PELLET	A. Shambon Great Neck, N. Y.	9/17/68
3,398,278	503,872(60)	NEUTRON DETECTOR FOR MEASURING DOSE RATE	W. F. Splichal, Jr. N. Augusta, S. C.	8/20/68	3,402,632	440,963(60)	METROLOGY METHOD FOR CRYSTAL DEFECT DETECTION	R. Feder Croton-on-Hudson, N. Y. K. W. Asai Mahopac, N. Y. H. P. Charbnau Putnam Valley, N. Y. R. Mannheimer Thornwood, N. Y.	9/24/68
3,398,280	513,861(60)	METHOD AND APPARATUS FOR DETERMINING COOLING AGE OF NUCLEAR REACTOR FUEL	H. A. Moulthrop Richland, Wash.	8/20/68					
3,398,297	470,654(60)	FREQUENCY CONVERTER USING LARGE SIGNAL SQUARE-LAW SEMICONDUCTOR	T. Huen Berkeley, Calif.	8/20/68	3,402,708	649,361(60)	SULF HEATER	M. G. Grega Miamisburg, O.	9/24/68

3,402,709	649,362(60)	SUIT HEATER	R. W. Shivers Washington, D. C. E. L. Beckman Gaithersburg, Md.	9/24/68
3,403,061	141,840(48)	PROCESS OF CONDITIONING PARTICULATE MATERIALS FOR USE IN ORGANIC EXPLOSIVES	L. McDonald Inyokern, Calif.	9/24/68
3,403,076	661,177(60)	MOLTEN SALT BREEDER REACTOR AND FUEL CELL FOR USE THEREIN	E. S. Bettis Knoxville, Tenn.	9/24/68
3,403,346	499,120(60)	HIGH ENERGY LINEAR ACCELERATOR APPARATUS	S. T. Giordano Port Jefferson, N. Y.	9/24/68

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December 31, 1968

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,404,200	659,572(60)	METHOD OF PREPARING A CERMET NUCLEAR FUEL	C. A. Burgess Kennewick, Wash.	10/1/68
3,404,270	504,268(60)	RADIOACTIVE ISOTOPE-ACTIVATED LIGHT SOURCE FOR COLOR PHOTOMETER	H. H. Ross Oak Ridge, Tenn.	10/1/68
3,404,559	438,137(60)	TRANSDUCER FOR MEASURING PRESSURE PULSES	D. B. Lombard D. V. Power Livermore, Calif.	10/8/68
3,405,032	656,639(60)	REACTOR CONTROL BY FREE PINION RACK AND PINION LINEAR ACTUATOR MOTION MULTIPLIER	D. M. Barrus Canoga Park, Calif. A. C. Williams Chatsworth, Calif.	10/8/68
3,405,233	471,773(60)	ISOTOPE SCANNER WHICH CREATES X-RAY AND GAMMA RADIATION IMAGES SIMULTANEOUSLY	H. O. Anger Oakland, Calif.	10/8/68
3,405,274	588,267(60)	DOSIMETER INCORPORATING AN ELECTRO-CHEMICAL INTEGRATING DEVICE	R. W. Lakin Livermore, Calif.	10/8/68
3,405,326	461,562(60)	MAGNET SWEEP CONTROL CIRCUIT	G. W. Barton, Jr. Alamo, Calif. R. J. Dupzyk Livermore, Calif.	10/8/68
3,405,327	498,170(60)	PULSE ENERGIZING AND ENERGY RECOVERY SYSTEM FOR AN ELECTROMAGNET	J. L. Cole Palo Alto, Calif. J. J. Muray Los Altos, Calif.	10/8/68
3,405,283	634,059(60)	MEANS FOR CONTROLLING CALUTRON FILAMENT ACTIVATION	C. Williams Clinton, Tenn.	10/15/68
3,406,313	513,862(60)	TIME SAMPLING CIRCUIT FOR AN OSCILLOSCOPE	H. W. Lefevre Eugene, Oreg. D. L. Wieber Orinda, Calif.	10/15/68
3,406,349	464,589(60)	ION BEAM GENERATOR HAVING LASER-ACTIVATED ION SOURCE	J. E. Swain Livermore, Calif. J. B. Truher Redwood City, Calif.	10/15/68

3,407,088	391,810(60)	IMPREGNATION OF CELLULOSIC MATERIALS WITH MONOMERIC VINYL CHLORIDE WITH OR WITHOUT A DYE AND IN SITU POLYMERISATION BY IRRADIATION	A. M. Feibush H. P. Kieltyka Westfield, N. J.	10/22/68
3,408,793	610,215(60)	APPARATUS FOR AUTOMATIC PREPARATIVE GAS CHROM.TOGRAPHY	J. W. Frazer Pleasanton, Calif.	11/5/68
3,409,413	660,569(60)	METHOD OF DISSOLVING ALUMINUM-CLAD THORIA TARGET ELEMENTS	R. E. Burns J. F. Phillips W. W. Schulz	11/5/68
3,409,414	674,067(60)	EXTRACTION OF BERKELIUM VALUES IN THE TETRAVALENT STATE USING 2-THENOYL-TRIFLUORACTONE	F. L. Moore Knoxville, Tenn.	11/5/68
3,409,415	643,315(60)	METHOD OF EXTRACTING SOLUBLE METAL COMPLEXES USING AMINE SOLVENTS	F. L. Moore Knoxville, Tenn.	11/5/68
3,410,619	635,983(60)	FLUOROCARBON LINED GLOVEBOX	R. L. Delnay Arvada, Colo. L. F. Grill J. L. Kalat Boulder, Colo.	11/12/68
3,410,668	685,177(60)	RECOVERY OF PLUTONIUM FROM REFRACTORY SILICEOUS MATERIALS	W. W. Conner Nederland, Colo.	11/12/68
3,411,146	581,420(60)	DIGITAL DATA SORTING LOGIC SYSTEM	R. E. Knutson Albuquerque, N. Mex.	11/12/68
3,411,884	630,486(60)	PROCESS FOR CONCENTRATING HEAVY WATER	V. R. Thayer Newark, Del.	11/19/68
3,411,987	688,481(60)	DEVICE FOR MEASURING THE DEPOSITION OF SOLIDS IN NUCLEAR REACTORS	V. F. Fitzpatrick Richland, Wash.	11/19/68
3,412,248	508,871(60)	METHOD AND MEANS UTILIZING A PULSED ULTRAVIOLET LASER FOR READOUT OF PHOTOLUMINESCENT DOSIMETERS	J. Kastner Park Forest, Ill. D. H. Eggenberger Downers Grove, Ill. L. Voyvodic Hinsdale, Ill.	11/19/68
3,412,337	574,819(60)	BEAM SPILL CONTROL FOR A SYNCHROTRON	F. H. G. Lothrop Lafayette, Calif.	11/19/68
3,412,616	529,289(60)	ACCELEROMETER	B. C. Watson Cambridge, Mass.	11/26/6
3,413,166	496,729(60)	FINE GRAINED STEEL AND PROCESS FOR PREPARATION THEREOF	V. F. Zackay Berkeley, Calif. E. R. Parker Orinda, Calif. K. V. Ravi Berkley, Calif.	11/26/6
3,413,196	485,811(60)	FUEL ELEMENT	P. Fortescue Rancho Santa Fe, Calif. F. R. Bell R. B. Duffield San Diego, Calif.	11/26/6
3,413,200	502,708(60)	A.C. ETCHING OF PLUTONIUM	K. A. Johnson Monroeville, Pa.	11/26/6
3,413,219	548,422(60)	COLLOIDAL HYDROUS OXIDE HYPERFILTRATION MEMBRANE	K. A. Kraus J. S. Johnson Oak Ridge, Tenn.	11/26/6
3,413,235	456,012(60)	THERMOLUMINESCENT RADIATION DOSIMETRIC MATERIAL	D. E. Jones J. R. Gaskill Livermore, Calif.	11/26/6
3,413,467	512,831(60)	ATMOSPHERIC NITROGEN FLUORESCENCE DETECTION APPARATUS	D. R. Westervelt Los Alamos, N. Mex.	11/26/6
3,413,528	533,381(60)	LITHIUM DRIFTED SEMICONDUCTOR RADIATION DETECTOR	J. Llacer Stanford, Calif.	11/26/6
3,413,529	534,974(60)	SEMICONDUCTOR DETECTOR HAVING A LITHIUM COMPENSATED SHELF REGION BETWEEN OPPOSITE CONDUCTIVITY TYPE REGIONS	F. S. Goulding Lafayette, Calif. R. P. Lothrop Berkeley, Calif.	11/26/6
3,414,403	541,402(60)	SILVER SEPARATION FROM AN ACID SOLUTION	L. A. Bray R. L. Moore Richland, Wash.	12/3/68
3,414,570	556,822(60)	N^2, N^4, N^6--TRIPICRYLMELAMINE	M. D. Coburn White Rock, N. Mex.	12/3/68
3,414,692	643,319(60)	COAXIAL LOOP SHOCK SENSOR SWITCH	D. R. Henley Newark, Calif.	12/3/68
3,414,744	511,565(60)	MAGNETOHYDRODYNAMIC GENERATOR	M. Petrick Joliet, Ill.	12/3/68

3,414,777	555,930(60)	AUTOMATIC SUPERCONDUCTING PUMP	H. L. Laquer Espanola, N. Mex. K. J. Carroll E. P. Hammel Los Alamos, N. Mex.	12/3/68
3,415,170	581,422(60)	SEALING ARRANGEMENT FOR PISTON-CYLINDER PRESSURE VESSEL	A. E. Smith Clinton, Tenn.	12/10/68
3,414,527	614,781(60)	CAGE FOR COMPRESSING PACKING MEMBERS	R. J. Ginther Creve Coeur, Mo.	12/10/68
3,415,977	582,209(60)	RESISTANCE WELDING	B. A. Bush Lafayette, Colo.	12/10/68
3,416,103	540,421(60)	ELECTRONIC PULSE LINE FOR PRODUCING SYMMETRICAL SQUARE-TOPPED PULSES	W. W. Goldsworthy Orinda, Calif.	12/10/68
3,416,365	491,063(60)	METHOD OF DETERMINING ELASTIC PROPERTIES OF A METAL SAMPLE	C. L. Frederick Richland, Wash.	12/17/68
3,416,768	597,494(60)	LOW LEAKAGE CONFINED SEAL	K. M. Welch Stockton, Calif.	12/17/68
3,417,002	464,250(60)	METHOD AND APPARATUS FOR IMPROVING RECOVERY OF PLUTONIUM-GALLIUM ALLOYS BY ELECTROREFINING	J. A. Leary L. J. Mullins, Jr. J. F. Buchen Los Alamos, N. Mex.	12/17/68
3,417,167	702,538(60)	METHOD OF PREPARING SPHERICAL URANIUM NITRIDE PARTICLES HAVING A POROUS INTERIOR	D. E. Kizer D. E. Lozier Columbus, Ohio	12/17/68
3,418,027	565,494(60)	ROTARY TABLE	C. Asmanes Oak Ridge, Tenn.	12/24/68
3,418,475	481,147(60)	LEAF SPRING-MOUNTED SHUTTER DEVICE ACTIVATED BY THE INTERRUPTION OF ELECTRICAL POWER	C. R. Hudgens W. Carrollton, O.	12/24/68
3,419,359	470,652(60)	FLAME IONIZATION DETECTOR	N. G. Anderson R. H. Stevens Oak Ridge, Tenn.	12/31/68
3,419,387	656,986(60)	PROCESS OF MAKING HIGH LOADED UO_2--COLUMBIUM CERMETS	E. Gordon New Haven, Conn. H. Fuhrman Shrub Oak, N. Y.	12/31/68
3,419,419	445,865(60)	NICKEL-PLATING BATH FOR THORIUM	R. R. Wright Oak Ridge, Tenn.	12/31/68
3,419,432	518,742(60)	SEAL	J. C. Hesson Riverdale, Ill.	12/31/68
3,419,485	555,931(60)	ELECTROPOLISHING PLATINUM IN A MOLTEN BATH OF POTASSIUM THIOCYONATE AND POTASSIUM CYANIDE	R. Seegmiller J. K. Gore Los Alamos, N. Mex.	12/31/68
3,419,656	639,595(60)	METHOD OF MAKING SOLID SOLUTION CARBIDE-GRAPHITE COMPOSITIONS	R. E. Riley K. V. Davidson J. M. Taub Los Alamos, N. Mex.	12/31/68
3,419,797	522,325(60)	NONDESTRUCTIVE EDDY CURRENT TESTING DEVICE FOR TESTING METAL TUBING AND INSTANTANEOUS DISPLAYING THE CROSS SECTION OF SAID TUBING	H. L. Libby Richland, Wash.	12/31/68

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,419,935	603,066(60)	HOT-ISOSTATIC-PRESSING APPARATUS	W. A. Pfeiler, Morris, Tenn.; C. K. Valentine, Oak Ridge, Tenn.	1/7/69
3,420,639	677,504(60)	MOLTEN SALT METHOD OF SEPARATION OF AMERICIUM FROM PLUTONIUM	L. J. Mullins, J. A. Leary, Los Alamos, N. Mex.	1/7/69
3,420,640	667,048(60)	PROCESS FOR DEPLETING ^{17}O AND ^{18}O IN $^{238}PuO_2$	J. A. Porter, Williston, S. C.	1/7/69
3,420,761	576,187(60)	LOW TEMPERATURE IRRADIATION OF MONOMER IMPREGNATED CELLULOSIC BODIES	A. M. Feibush, Westfield, N. J.	1/7/69
3,420,810	589,468(60)	PROCESS FOR JOINING THE A AND B CHAINS OF INSULIN	P. Katsoyannis, Patchogue, N. Y.; A. M. Tometsko, Rochester, N. Y.	1/7/69
3,420,999	550,089(60)	THERMOLUMINESCENT TISSUE EQUIVALENT DOSIMETER	C. H. Distenfeld, Hattituck, N. Y.	1/7/69
3,421,010	523,514(60)	SPIRAL SCANNING SYSTEM EMPLOYING ROTARY AND RECIPROCATING MIRRORS FOR AUTOMATIC DATA MEASURING PROJECTORS	F. L. Toby, Berkeley, Calif.	1/7/69
3,421,015	673,223(60)	ELECTRICAL LOAD CONTROLLER	E. M. Jones, Evansville, Ind.; R. J. Thomas, Paducah, Ky.	1/7/69
3,421,071	538,918(60)	RECTIFIER FOR ACCELERATOR MAGNETS	R. L. Cassell, Port Jefferson, N. Y.	1/7/69
3,421,125	623,182(60)	SOLENOID ACTUATED DEVICE	C. A. Sandoval, Albuquerque, N. Mex.	1/7/69
3,421,334	571,652(60)	APPARATUS AND METHOD FOR SEPARATION OF HELIUM ISOTOPES	J. L. McKinney, Dayton, Ohio; W. L. Taylor, Cincinnati, Ohio	1/14/69
3,421,543	616,431(60)	GAS, LOW PRESSURE, DIFFERENTIAL REGULATOR	M. Montag, Plainview, N. Y.	1/14/69
3,421,714	628,791(60)	RE-ENTRY VEHICLE FOR SMALL PACKAGES	W. G. Koerner, Manhattan Beach, Calif.	1/14/69
3,421,819	383,534(60)	OPTICAL EXTENSOMETER	T. Anderson, Castro Valley, Calif.; E. H. Lorbeer, Livermore, Calif.	1/14/69
3,421,953	586,007(60)	CARBIDE DEPOSITION ON TANTALUM	J. C. McGuire, Kennewick, Wash.; C. Wohlberg, Los Alamos, N. Mex.	1/14/69
3,422,167	701,872(60)	METHOD FOR PREPARING METAL OXIDE MICROSPHERES	R. A. Bowman, Oak Ridge, Tenn.; E. L. Pilloton, Berkeley Heights, N. J.	1/14/69
3,422,681	558,217(60)	VEHICLE ACTUATED ROADSIDE AIR SAMPLING DEVICE	M. Sanders, Knoxville, Tenn.	1/21/69
3,423,190	690,428(60)	PLUTONIUM TETRAFLUORIDE PREPARATION AND SEPARATION BY SORPTION ON SODIUM FLUORIDE	M. J. Steindler, Park Forest, Ill.; A. A. Jonke, Elmhurst, Ill.	1/21/69
3,423,500	523,803(60)	METHOD FOR INSPECTING INACCESSIBLE SURFACES	T. G. Gregory, Los Alamos, N. Mex.	1/21/69
3,423,706	591,056(60)	MULTIPOLE MAGNET HAVING A SEQUENTIALLY SHIM STEPPED COIL CONFIGURATION	W. B. Sampson, R. A. Beth, Bellport, N. Y.; R. B. Britton, Setauket, N. Y.; P. G. Kruger, Champaign, Ill.	1/21/69
3,423,710	593,254(60)	WIDE BAND INDUCTIVE COIL DEVICE	P. E. Allen, Reno, Nev.	1/21/69

3,424,549	490,753(60)	MULTISTAGE SEPARATION OF COMPONENTS OF A SOLUTION	W. L. Godfrey Pasco, Wash.	1/28/69
3,424,653	645,569(60)	METHOD FOR START-UP OF A NUCLEAR REACTOR UTILIZING A DIGITAL COMPUTER	C. E. Cohn Clarendon Hills, Ill.	1/28/69
3,425,115	369,033(60)	METHOD AND APPARATUS FOR MAKING PEAS-IN-A-POD NUCLEAR REACTOR ELEMENT	J. H. Handwerk Joliet, Ill. D. E. White Maywood, Ill.	2/4/69
3,425,826	537,619(60)	PURIFICATION OF VANADIUM AND COLUMBIUM (NIOBIUM)	F. A. Schmidt O. N. Carlson H. A. Wilhelm Ames, Iowa W. E. Krupp Simi, Calif.	2/4/69
3,425,872	489,441(60)	THERMAL BATTERY HAVING HEAT GENERATING MEANS COMPRISING EXOTHERMICALLY ALLOYABLE METALS	S. C. Levy Albuquerque, N. Mex.	2/4/69
3,426,205	671,484(60)	METHOD FOR TAGGING SAND WITH A GASLOUS RADIOACTIVE ISOTOPE	E. H. Acree F. N. Case Oak Ridge, Tenn.	2/4/69
3,426,967	516,156(60)	APPARATUS FOR CENTRIFUGING ELECTRICALLY CONDUCTING LIQUIDS	H. W. Roberts Chamblee, Ga. H. E. McLain, Jr. Smyrna, Ga.	2/11/69
3,427,155	637,043(60)	BRAZING ALLOY	C. W. Fox Kokomo, Ind. G. M. Slaughter Oak Ridge, Tenn.	2/11/69
3,427,189	438,798(60)	RADIATION RESISTANT INSULATION	H. Brechna Palo Alto, Calif.	2/11/69
3,427,452	576,781(60)	THERMOLUMINESCENT HEAT STABLE LITHIUM FLUORIDE DOSIMETER	W. J. Martin Wading River, N. Y.	2/11/69
3,427,475	506,915(60)	HIGH SPEED COMMUTATING SYSTEM FOR LOW LEVEL ANALOG SIGNALS	B. Wilkinson Torrance, Calif. P. W. LeVier Pasadena, Calif.	2/11/69
3,428,546	583,119(60)	APPARATUS FOR VACUUM DEPOSITION ON A NEGATIVELY BIASED SUBSTRATE	G. A. Baum Stillwater, Okla. R. L. Beno T. Van Vorour Boulder, Colo.	2/18/69
3,428,891	625,917(60)	METHOD FOR EVALUATING THE STABILITY AND OPERATING CHARACTERISTICS OF COMPOSITE SUPERCONDUCTORS	J. R. Purcell Downers Grove, Ill. J. H. Brooks Lemont, Ill.	2/18/69
3,428,894	591,657(60)	REVERSIBLE ELECTROCHEMICAL COULOMETER	G. E. Boettcher Albuquerque, N. Mex.	2/18/69
3,429,158	597,483(60)	PROTECTIVE CLADDING AND LUBRICANT FOR MECHANICALLY DEFORMABLE REACTIVE METALS	R. E. McDonald G. A. Reimann F. H. Patterson Oak Ridge, Tenn. C. F. Leitten, Jr. Indianapolis, Ind.	2/25/69
3,429,184	459,485(60)	GRAVITY METER	J. T. Russell Richland, Wash.	2/25/69
3,429,185	654,203(60)	OMNI-DIRECTIONAL VACUUM GAUGE PROBE	R. J. Piper Huntington Beach, Calif. J. A. Craig El Toro, Calif. R. A. Dutton Chesterfield, Mo.	2/25/69
3,429,187	685,003(60)	RING SLIT CONIFUGE	W. Stober Penfield, N. Y.	2/25/69
3,429,655	526,662(60)	METHOD AND FILTER FOR REMOVING IODINE FROM GASES	F. N. Case Oak Ridge, Tenn.	2/25/69
3,429,667	547,032(60)	METHOD OF QUANTITATIVE ANALYSIS OF REDUCIBLE SUBSTANCES WITH HYDRATED ELECTRONS	E. J. Hart Hinsdale, Ill. E. M. Fielden Elmhurst, Ill.	2/25/69

3,429,669	673,528(60)	METHOD OF PROCESSING NUCLEAR FUEL BY SELECTIVE ClF FLUORINATION WITH SEPARATION OF UF_6 AND PuF_4	G. Camozzo W. Goossens G. Pierini Mol, Belgium F. Coenen Antwerp, Belgium A. Francesconi Turnhout, Belgium J. J. Schmets Mol-Donk, Belgium A. Stynen Eindhout, Belgium	2/25/69
3,429,670	673,527(60)	METHOD OF FLUORINATING NUCLEAR FUEL WITH RECOVERY OF PLUTONIUM TETRAFLUORIDE AND URANIUM HEXAFLUORIDE	G. Camozzo G. Pierini Mol, Belgium F. Coenen Antwerp, Belgium A. Francesconi Turnhout, Belgium J. J. Schmets Mol-Donk, Belgium A. Stynen Eindhout, Belgium	2/25/69
3,429,699	658,305(60)	HIGH LOADED UO_2-COLUMBIUM CERMETS	H. Fuhrman Shrub Oak, N. Y. E. Gordon New Haven, Conn. R. B. Holden Pleasantville, N. Y.	2/25/69
3,429,774	686,299(60)	PREVENTION OF SEIZING IN LIQUID METAL ENVIRONMENTS	D. H. Gurinsky Center Moriches, N. Y. R. H. Powers Stormville, N. Y. H. Susskind Huntington, N. Y.	2/25/69
3,429,798	641,427(60)	ELECTROCHEMICAL ETCHING OF SPIRAL LANDS	C. J. Beck M. R. Birnby Schenectady, N. Y. P. G. Lozier Ballston Lake, N. Y.	2/25/69
3,430,043	494,281(60)	MINIMUM IONIZATION PARTICLE DETECTOR PRODUCED BY GAMMA RAY IRRADIATION	H. A. Blumenfeld Princeton, N. J. F. P. Pandolfi Boston, Mass. Chih-Ree Sun Bayside, N. Y.	2/25/69
3,430,230	492,342(60)	ANNUNCIATOR CIRCUIT	R. H. Jones Scotia, N. Y.	2/25/69
3,430,483	532,527(60)	DETERMINATION OF VAPOR QUALITY	L. G. Clawson Dover, Mass. M. B. Ziering Newton Highlands, Mass.	3/4/69
3,430,849	657,713(60)	LIQUID CENTRIFUGE FOR LARGE-SCALE VIRUS SEPARATION	R. F. Gibson D. A. Waters Oak Ridge, Tenn. C. E. Hunley Kingston, Tenn.	3/4/69
3,431,104	570,731(60)	ZIRCONIUM BASE ALLOY	H. H. Klepfer Pleasanton, Calif.	3/4/69
3,431,201	664,207(60)	HYPERFILTRATION PROCESS HAVING ION EXCHANGE PRETREATMENT	J. S. Johnson K. A. Kraus Oak Ridge, Tenn.	3/4/69
3,431,328	671,882(60)	METHOD OF MAKING A STRONTIUM-90 RADIATION SOURCE	F. H. Case Oak Ridge, Tenn. T. S. Mackey C. E. McFarland Knoxville, Tenn.	3/4/69
3,431,329	701,858(60)	METHOD OF PREPARING A FUEL MATERIAL FOR USE IN A NUCLEAR REACTOR	G. D. White J. H. Handwerk Joliet, Ill.	3/4/69
3,431,379	617,020(60)	METHOD FOR INDUCTION HEATING	C. S. Yrene Albuquerque, N. Mex.	3/4/69
3,431,413	594,320(60)	ROTATIONAL TECHNIQUE FOR ASSESSING QUANTITY AND DISTRIBUTION OF BODY RADIOACTIVITY	J. I. Anderson D. G. Olson Idaho Falls, Idaho	3/4/69
3,431,414	652,632(60)	RADIATION DETECTOR AND RECORDER	L. C. Bate Clinton, Tenn. F. F. Dyer L. H. Thacker Knoxville, Tenn.	3/4/69
3,431,502	720,265(60)	TARGET POSITIONER FOR ACCELERATOR EXTERNAL BEAM	K. F. Stone L. T. Jackson Berkeley, Calif.	3/4/69

3,431,860	654,038(60)	CENTRIFUGAL PUMP OF THE FREE SURFACE TYPE	R. W. Atz Canoga Park, Calif.	3/11/69
3,432,240	538,916(60)	LASER OPTICAL ALIGNING METHOD AND APPARATUS	W. L. Jackson Hayward, Calif.	3/11/69
3,432,336	392,042(60)	IMPREGNATION OF GRAPHITE WITH REFRACTORY CARBIDES	K. Langrod Sherman Oaks, Calif. R. L. Jones Canoga Park, Calif.	3/11/69
3,432,379	502,687(60)	THREE DIMENSIONAL FLEXIBLE DOVETAIL HONEYCOMB	M. V. Anderson Hayward, Calif.	3/11/69
3,432,388	725,558(60)	NUCLEAR REACTOR SYSTEM WITH FISSION GAS REMOVAL	P. Fortescue La Jolla, Calif.	3/11/69
3,432,390	656,955(60)	FUEL ASSEMBLY FOR A NUCLEAR REACTOR	R. A. Dean Monroeville, Pa. E. A. McCabe, Jr. Pittsburgh, Pa.	3/11/69
3,432,656	597,150(60)	GAGE DEVICE FOR MEASUREMENT OF DENSITY PROFILES OF SNOWPACK	J. L. Smith Pleasant Hill, Calif. D. W. Willen Berkeley, Calif.	3/11/69
3,432,660	720,174(60)	GAMMA-RAY CAMERA FOR IMAGING RADIOISOTOPE DISTRIBUTION IN A TRANSVERSE SECTION OF A ROTATING SUBJECT	H. O. Anger Berkeley, Calif.	3/11/69
3,432,662	591,378(60)	AUTOMATIC SEPARATION COLUMN PRODUCT ANALYZER	R. J. Walker Walnut Creek, Calif.	3/11/69
3,432,664	410,328(60)	HIGH VOLTAGE FIELD-REVERSAL PULSE GENERATOR USING A LASER SWITCHING MEANS TO ACTIVATE A FIELD EMISSION X-RAY TUBE	J. B. Robison Livermore, Calif.	3/11/69
3,432,665	617,018(60)	IRRADIATION DEVICE FOR PROVIDING A CONSTANT DOSE RATE	H. E. Kimble Knoxville, Tenn.	3/11/69
3,432,682	437,331(60)	TRIGGERED VOLT-SECOND GENERATOR	R. G. Huss Albuquerque, N. Mex.	3/11/69
3,432,709	504,274(60)	CALUTRON ION SOURCE WITH MAGNETIC FIELD INDUCING COIL WITHIN ARC CHAMBER	J. V. Lee L. O. Love Oak Ridge, Tenn.	3/11/69
3,432,764	684,134(60)	SPECIALIZED ELECTROMETER CIRCUIT	H. A. Kermicle Oak Ridge, Tenn.	3/11/69
3,432,773	661,179(60)	EMITTER-FOLLOWER OSCILLATOR EMPLOYING FERROELECTRIC CERAMIC FEEDBACK NETWORK	C. E. Land D. G. Schueler Albuquerque, N. Mex.	3/11/69
3,432,774	659,568(60)	VOLTAGE-TUNED WIEN BRIDGE OSCILLATOR	O. A. Fick Livermore, Calif.	3/11/69
3,432,783	663,175(60)	SUPERCONDUCTOR RIBBON	R. B. Britton Setauket, N. Y. K. E. Robins Center Moriches, N. Y. W. B. Sampson Bellport, N. Y.	3/11/69
3,433,051	532,541(60)	APPARATUS FOR DETERMINING MECHANICAL AND THERMAL PROPERTIES OF METALS	R. Parker Danville, Calif.	3/18/69
3,433,705	709,080(60)	STELLARATOR HAVING MULTIPOLE MAGNETS	C. D. Cornish Port Jefferson, N. Y.	3/18/69
3,433,954	580,571(60)	SEMICONDUCTOR X-RAY EMISSION SPECTROMETER	H. R. Bowman Walnut Creek, Calif. S. G. Thompson E. K. Hyde Berkeley, Calif. R. C. Jared Hayward, Calif.	3/18/69
3,433,977	571,156(60)	PULSE LINE HAVING COMPONENTS COAXIALLY INTERCONNECTED AND CONFINED WITH LARGE SURFACE AREA CONDUCTORS	W. L. Gagnon El Sobrante, Calif. D. T. Scalise B. H. Smith Berkeley, Calif.	3/18/69
3,434,053	384,268(60)	CIRCUITS FOR AN ELECTRICAL RMS MEASURING INSTRUMENT	D. A. McKee Grand Junction, Colo.	3/18/69
3,434,061	580,513(60)	COMPENSATION OF PHASE DRIFT ON LONG CABLES	H. Hahn E. Patchogue, N. Y. H. J. Halama Shoreham, N. Y.	3/18/69

3,434,122	351,875(60)	MULTIREMANENCE FERROELECTRIC CERAMIC MEMORY ELEMENT	C. E. Land G. H. Haertling Albuquerque, N. Mex.	3/18/69
3,434,809	713,410(60)	SEPARATION OF ACTINIUM AND THORIUM FROM URANIUM AND ITS DAUGHTERS	D. H. Swanson Miamisburg, Ohio	3/25/69
3,435,219	613,078(60)	NEUTRON SPECTROMETER FOR HIGH NEUTRON FLUX	A. Kevey Setauket, N. Y.	3/25/69

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,436,153	493,278(60)	OBJECT MEASURING BY INTERFEROMETRY	R. R. Baldwin Clinton, Tenn.	4/1/69
3,436,193	712,391(60)	PLUTONIUM SUBLIMATION	R. A. Chilenskas Chicago, Ill.	4/1/69
3,436,538	523,997(60)	METHOD FOR MEASURING FISSIONABLE MATERIAL CONTENT OF FUELS	D. L. Basdekas San Antonio, Tex.	4/1/69
3,438,856	694,536(60)	NUCLEAR REACTOR HYDRAULIC CONTROL DRIVE SYSTEM	C. C. Ripley San Jose, Calif.	4/15/69
3,439,187	569,759(60)	ANTILOGARITHMIC FUNCTION GENERATOR	M. G. Strauss Downers Grove, Ill.	4/15/69
3,440,037	506,914(60)	STAINLESS STEEL ALLOY EXHIBITING RESISTANCE TO EMBRITTLEMENT BY NEUTRON IRRADIATION	W. R. Martin J. R. Weir Oak Ridge, Tenn.	4/22/69
3,440,731	526,327(60)	MAGNETICALLY STABILIZED FLUIDIZED BED	E. J. Tuthill Belle Terre, N. Y.	4/29/69
3,441,351	452,951(60)	COLOR RECORDING AVERAGING LIGHT INTENSITY METER	P. R. Bell C. C. Harris Oak Ridge, Tenn.	4/29/69
3,441,451	591,011(60)	HIGH TEMPERATURE STRESS FREE THERMOCOUPLE JUNCTION	P. G. Salgado White Rock, Los Alamos, N. Mex.	4/29/69
3,441,478	717,115(60)	FUEL ELEMENT FOR NEUTRONIC REACTOR AND METHOD OF FABRICATION THEREOF	L. C. Williams Clinton, Tenn.	4/29/69
3,441,488	394,370(60)	ELECTROLYTIC DESALINATION OF SALINE WATER BY A DIFFERENTIAL REDOX METHOD	E. I. Onstott Los Alamos, N. Mex.	4/29/69

3,441,752	504,269(60)	THERMIONIC CONVERTER DEVICE	G. M. Grover Los Alamos, N. Mex. C. A. Busse Lavena, Italy R. J. Caron Ispra, Italy	4/29/69
3,441,775	591,001(60)	DIPOLE CURRENT LEAD FOR A PLASMA CONTAINMENT DEVICE	J. E. Hammel D. A. Baker L. C. Burkhardt J. N. DiMarco R. N. Henson H. J. Karr J. Marshall Los Alamos, N. Mex.	4/29/69
3,442,217	641,424(60)	ON-OFF SWITCH FOR ELECTRO-MAGNETIC PUMP	H. H. Hanlin Canoga Park, Calif.	5/6/69
3,442,642	728,369(60)	PREPARATION OF PLUTONIUM	W. J. Ramsey J. O. Jepson D. H. Wood Livermore, Calif.	5/6/69
3,443,097	695,971(60)	POCKET RADIATION DOSIMETER UTILIZING CAPACITOR INTEGRATOR	M. L. Smith Kennewick, Wash.	5/6/69
3,443,212	691,999(60)	PULSED ELECTROMAGNETIC TESTING DEVICE WITH SAMPLING MEANS	C. J. Renken Orland Park, Ill.	5/6/69
3,443,217	570,144(60)	VARIABLE FREQUENCY HIGH SENSITIVITY MICROWAVE SPECTROSCOPY	J. M. Brinkerhoff Arlington, Mass.	5/6/69
3,443,912	724,357(60)	SEPARATION OF URANIUM AND THORIUM FROM PLUTONIUM	G. L. Silver Centerville, O.	5/13/69
3,444,089	566,090(60)	EXCIMER SCINTILLATORS	J. G. Carter L. G. Christophorou Oak Ridge, Tenn.	5/13/69
3,445,201	716,497(60)	ION EXCHANGE PROCESS FOR RECOVERING AMERICIUM AND CURIUM	E. J. Wheelwright Richland, Wash.	5/20/69
3,445,661	667,338(60)	PULSE-SHAPING TRANSMISSION-LINE TRANSFORMER FOR A DOUBLE-GAP STREAMER CHAMBER	A. C. Odian F. Bulos Palo Alto, Calif. F. Villa Los Altos, Calif. D. E. Yount Menlo Park, Calif.	5/20/69
3,446,067	616,435(60)	FORCE READOUT SYSTEM	C. E. Frantz F. F. Vlacil Richland, Wash.	5/27/69
3,446,522	639,253(60)	INTERNAL RETAINING RING	C. T. Hoard Oakland, Calif.	5/27/69
3,446,574	711,527(60)	PREPARATION OF THE RARE EARTH SESQUICARBONATES	E. L. Head Los Alamos, N. Mex.	5/27/69
3,446,703	683,374(60)	METHOD OF OPERATING A NUCLEAR REACTOR	H. F. Lyons B. Weidenbaum San Jose, Calif.	5/27/69
3,447,032	648,534(60)	HIGH-VOLTAGE PULSING APPARATUS FOR A SPARK CHAMBER	T. A. Romanowski Elmhurst, Ill. C. J. Rush Downers Grove, Ill.	5/27/69
3,447,144	526,333(60)	MECHANICALLY SETTABLE MAGNETIC REGISTER	R. L. Snyder New Smyrna Beach, Fla.	5/27/69
3,448,054	597,145	COOLANT SALT FOR A MOLTEN SALT BREEDER REACTOR	R. E. Thoma, Jr. Oak Ridge, Tenn. C. H. Hebert Knoxville, Tenn.	6/3/69
3,448,377	674,989(60)	METHOD UTILIZING AN ELECTRON BEAM FOR NONDESTRUCTIVELY MEASURING THE DIELECTRIC PROPERTIES OF A SAMPLE	H. Seiwatz Oak Park, Ill. C. M. Grooa Chicago, Ill.	6/3/69
3,448,859	541,400(60)	RADIOACTIVE WASTE REMOVAL METHOD	W. C. Hall L. D. Hassell, Jr. Baltimore, Md. T. R. Barker II Pasadena, Md.	6/10/69

3,448,872	698,930(60)	FUEL ELEMENT POSITIONER	C. R. Oak San Jose, Calif.	6/10/69
3,449,143	520,305(60)	METHOD OF INCREASING THE CORROSION RESISTANCE OF COBALT-BASED ALLOYS TO MERCURY	E. J. Vargo Beachwood, Ohio	6/10/69
3,449,175	707,203(60)	ZIRCONIA-BASED THERMOELECTRIC COMPOSITIONS	C. I. McVey Shaker Heights, O. H. McConnaughey Lynchburg, Ohio H. D. Gibson Cincinnati, Ohio J. V. Smith Springboro, Ohio	6/10/69
3,449,177	562,954(60)	RADIATION DETECTOR	G. C. Huth Rosemont, Pa. R. A. McKinney Philadelphia, Pa.	6/10/69
3,449,245	504,277(60)	METHOD OF SEPARATING SALTS FROM AQUEOUS SOLUTIONS	J. S. Johnson K. A. Kraus A. E. Marcinkowsky H. O. Phillips A. J. Shor Oak Ridge, Tenn.	6/10/69
3,449,859	607,585(60)	TEMPERATURE CONTROL CIRCUIT	J. J. Henry Oak Ridge, Tenn.	6/10/69
3,450,576	499,119(60)	INHIBITION OF URANIUM METAL CORROSION	T. P. Sprague Clinton, Tenn.	6/17/69
3,450,857	612,296(60)	GAS SHIELDING DEVICE	W. S. Webb Albuquerque, N. Mex.	6/17/69
3,450,879	710,551(60)	DIELECTRIC-TYPE CHARGED PARTICLE DETECTOR	E. J. Seppi Menlo Park, Calif.	6/17/69
3,451,266	511,563(60)	VAPOR PRESSURE GAUGE AND CALORIMETER FOR HIGH TEMPERATURES	G. M. Grover Los Alamos, N. Mex. C. A. Busse Laveno, Varese, Italy J. Bohdansky Taino, Varese, Italy	6/24/69
3,451,467	658,289(60)	CENTRIFUGAL CASTING APPARATUS	J. L. Frankeny Arvada, Colo. K. E. Voiles Denver, Colo.	6/24/69
3,451,790	728,911(60)	METHOD OF SEPARATING NEPTUNIUM AND URANIUM VALUES	Sidney Katz Oak Ridge, Tenn. G. I. Cathers Knoxville, Tenn.	6/24/69
3,452,175	643,314(60)	ROLLER-BAND DEVICES	D. F. Wilkes Albuquerque, N. Mex.	6/24/69
3,452,191	642,663(60)	MICROWAVE DEFLECTION SYSTEM FOR SUPERCONDUCTING PARTICLE SEPARATOR	H. Hahn E. Patchogue, N. Y. H. J. Halama Shoreham, N. Y.	6/24/69
3,452,309	683,376(60)	ROLLER-BAND DEVICES	D. F. Wilkes Albuquerque, N. Mex.	6/24/69

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,438,749	589,467(60)	ION EXCHANGE METHOD FOR PREPARING METAL OXIDE MICROSPHERES	F. D. Lonadier Miamisburg, O. W. B. Brown F. C. Fushimi Dayton, O. G. L. Silver Centerville, O.	4/15/69
3,450,878	600,266(60)	DOSIMETER FOR HIGH LEVELS OF ABSORBED RADIATION	G. F. Pezdirtz V. L. Bell, Jr. Newport News, Va.	6/17/69
3,453,050	594,985(60)	TRACE SCANNING	J. L. Arrowood W. A. Groppe W. W. Lee, Jr. Oak Ridge, Tenn.	7/1/69
3,453,423	536,590(60)	FOUR QUADRANT LOGARITHMIC MULTIPLIER FOR TIME-DEPENDENT SIGNALS	P. Fu-Yuan Ma. Hsinchu, Taiwan, China	7/1/69
3,453,430	695,867(60)	CONTROLLED DEFECT COLORATION DOSIMETER	A. C. Muller Yaphank, N. Y.	7/1/69
3,453,558	485,643(60)	OPTICAL MASER SYSTEM	M. T. Abegg D. M. Hull W. B. Leslie Albuquerque, N. Mex.	7/1/69
3,453,574	715,352(60)	HIGH-FREQUENCY, WIDE-BAND TRANSFORMER	T. de Parry Elmhurst, Ill.	7/1/69
3,454,214	678,116(60)	FINS FOR ELIMINATING BACK-STREAMING IN A VACUUM PUMP	N. Milleron Berkeley, Calif.	7/8/69
3,454,466	694,538(60)	NUCLEAR REACTOR CONTAINMENT SYSTEM FOR METROPOLITAN SITES	W. A. Pitt R. B. Lemon San Jose, Calif.	7/8/69
3,454,468	717,236(60)	FUEL ELEMENT FOR NEUTRONIC REACTOR AND METHOD OF FABRICATION THEREOF	E. A. Franco-Ferreira Nashville, Tenn.	7/8/69
3,454,490	571,653(60)	CONCENTRATION OF IONS USING ION SELECTIVE MEMBRANES	R. M. Wallace Aiken, S. C.	7/8/69
3,454,814	568,983(60)	TUBULAR VAPOR SOURCE	L. Mancebo Livermore, Calif.	7/8/69
3,455,506	522,328(60)	THERMOSTATIC VALVE	E. Medal Wash., D. C.	7/15/69
3,456,113	646,157(60)	DETECTION, IDENTIFICATION AND ANALYSIS OF FISSIONABLE ISOTOPES	G. R. Keepin Los Alamos, N. Mex.	7/15/69
3,457,413	643,318(60)	DOSE EQUIVALENT RADIATION SYSTEM	J. W. Baum Patchogue, N. Y.	7/22/69
3,457,418	694,328(60)	OPTICAL IMAGE AMPLIFIER UTILIZING ELECTRON AVALANCHES IN A GAS	H. W. Miller Albany, Calif. Q. A. Kerns Orinda, Calif.	7/22/69
3,457,516	535,657(60)	DOUBLE DELAY-LINE FILTERS FOR PULSE AMPLIFIERS	T. V. Blalock Knoxville, Tenn.	7/22/69
3,457,517	645,582(60)	ELECTRON PULSE GENERATOR OF THE GROUNDED GRID TYPE EMPLOYING A DELAY LINE STORAGE MEANS	K. W. Johnson Lockport, Ill. T. E. Klippert Lombard, Ill. W. J. Ramler Elmhurst, Ill.	7/22/69
3,457,646	576,196(60)	LASER BEAM OPERATED X-Y TABLE	A. J. Schwemin Oakland, Calif.	7/29/69
3,458,291	738,837(60)	SEPARATION OF RUTHENIUM AND PLUTONIUM BY A LITHIUM FLUORIDE SORPTION TECHNIQUE	J. G. Riha N. Riverside, Ill. La Verne E. Trevorrow Glen Ellyn, Ill. M. J. Steindler Park Forest, Ill.	7/29/69
3,458,706	565,495(60)	TAPE REEL IDENTIFYING ARRANGEMENT EMPLOYING LIGHT REFLECTIVE CODED LABEL	D. A. Ravenhall Quoque, N. Y. G. Schwender Shoreham, N. Y.	7/29/69
3,458,972	758,931(60)	METHOD OF DEAERATING SEA WATER	R. K. Sood Knoxville, Tenn.	8/5/69

3,459,636	747,321(60)	VENTED FUEL PIN	J. H. Germer San Jose, Calif.	8/5/69
3,459,925	500,452(60)	HIGH SPEED TEMPERATURE MONITOR	J. H. Wilson M. H. Goosey A. H. Dexter Aiken, S. C. R. W. Leep Los Alamos, N. Mex. W. K. Hodder Glendora, Calif. L. G. Page Santa Ana, Calif. E. R. Brady Sierra Madre, Calif.	8/5/69
3,459,960	635,985(60)	HIGH ENERGY PULSE GENERATOR UTILIZING A DECOUPLING TRANSFORMER	K. Asland O. S. Zucker Livermore, Calif.	8/5/69
3,460,909	477,355(60)	CATALYTIC COMBUSTION DETECTOR FOR GAS CHROMATOGRAPHY	T. M. Gayle Oak Ridge, Tenn.	8/12/69
3,460,917	710,728(60)	RECOVERY OF AMERICIUM FROM PLUTONIUM METAL USING MOLTEN SALTS	J. L. Long Arvada, Colo.	8/12/69
3,460,918	697,314(60)	METHOD OF CHLORINATING METALS WITH CARBON TETRACHLORIDE AND CARBON DIOXIDE	H. A. Wilhelm R. M. Bergman Ames, Iowa	8/12/69
3,461,005	665,688(60)	P-CONTACT FOR COMPENSATED P-GERMANIUM CRYSTAL	M. A. Jamini Brookhaven, N. Y.	8/12/69
3,461,076	764,958(60)	PROCESS FOR PREPARING PLUTONIA AQUASOLS	H. H. Lloyd L. G. Haire Oak Ridge, Tenn.	8/12/69
3,461,237	618,284(60)	METHOD OF ENCODING BINARY DIGITAL DATA	F. O. Salter Glen Ellyn, Ill.	8/12/69
3,461,286	731,521(60)	METHOD AND APPARATUS FOR MEASURING THE VOID FRACTION OF HYDROGENOUS FLUIDS	C. H. Jackson, Jr. W. G. Spear Richland, Wash.	8/12/69
3,461,288	538,158(60)	CHEMICAL DOSIMETER	G. Oster New York, N. Y.	8/12/69
3,461,292	594,325(60)	LOW LEVEL RADIATION MONITOR	W. F. Splichal, Jr. N. Augusta, S. C.	8/12/69
3,461,294	517,868(60)	METHOD FOR GENERATING A BEAM OF IONS WHEREIN THE IONS ARE COMPLETELY POLARIZED	D. von Ehrenstein Westmont, Ill. D. C. Hess Downers Grove, Ill.	8/12/69
3,461,305	616,436(60)	SYSTEM FOR CONTROLLING THE RESPONSE OF A PHOTOELECTRIC TAPE READER BY UTILIZING AN "OR" GATE AND A DELAY TO SIMULATE SPROCKET HOLE SIGNALS	C. L. Moulton Knoxville, Tenn.	8/12/69
3,461,410	662,207(60)	2-n POLE ELECTROMAGNET FOR FOCUSING CHARGED PARTICLES	R. A. Beth Bellport, N. Y.	8/12/69
3,462,797	593,598(60)	FABRICATION OF ELONGATED PRODUCTS	J. J. Asbury Knoxville, Tenn.	8/26/69
3,463,004	639,596(60)	VOLUMETRIC FLOW MEASUREMENT	R. Withnell Wading River, N. Y.	8/26/69
3,463,619	744,353(60)	SOLVENT EXTRACTION PROCESS FOR PURIFYING AMERICIUM AND CURIUM	G. L. Ritter L. A. Bray Richland, Wash.	8/26/69
3,463,634	751,339(60)	CARBON REDUCTION PROCESS	H. A. Wilhelm J. K. McClusky Ames, Iowa	8/26/69
3,463,635	679,668(60)	RECOVERY OF MERCURY FROM NUCLEAR FUEL REPROCESSING WASTES	D. W. Rhodes M. W. Wilding Idaho Falls, Idaho	8/26/69
3,463,703	747,320(60)	FUEL PIN SPACERS	G. J. Crandall Northport, Wash.	8/26/69
3,463,738	725,890(60)	CONVERSION AND CONTAINMENT OF RADIOACTIVE ORGANIC LIQUIDS INTO SOLID FORM	C. L. Fitzgerald Kingston, Tenn. H. W. Godbee Oak Ridge, Tenn. K. H. McCorkle, Jr. Powell, Tenn.	8/26/69

3,463,739	734,198(60)	METHOD FOR RECOVERING POLONIUM-210 FROM BISMUTH	W. W. Schulz G. F. Schiefelbein Richland, Wash. L. E. Bruns Kennewick, Wash.	8/26/69
3,464,013	612,292(60)	PEAK CURRENT METER	J. A. Biggerstaff Oak Ridge, Tenn. R. Nutt Knoxville, Tenn.	8/26/69
3,464,889	679,828(60)	HEAT ACTUATED CONTROL ROD UTILIZING A CADMIUM-POTASSIUM MIXTURE	G. F. Erickson Los Alamos, N. Mex.	9/2/69
3,465,431	629,826(60)	METHOD FOR MAKING BASEBALL SEAM MAGNETIC COILS	C. D. Henning Livermore, Calif.	9/9/69
3,465,587	686,002(60)	DIODE SENSORS FOR LIQUID LEVEL DETECTION	W. B. Pierce Los Altos, Calif.	9/9/69
3,465,972	638,701(60)	DEVICE FOR CONDUCTING CRUSHING AND SCREENING OPERATION SIMULTANEOUSLY	Z. L. Ardary Oak Ridge, Tenn.	9/9/69
3,466,137	642,290(60)	METHOD OF REMOVING RADIO-IODINE VALUES FROM A GASEOUS MEDIUM	W. T. Ward R. E. Adams Oak Ridge, Tenn.	9/9/69
3,466,203	634,795(60)	METHOD OF PRODUCING PURIFIED REFRACTORY METAL AND ALLOY POWDERS	C. O. Tarr L. V. Owen Cincinnati, O.	9/9/69
3,466,227	669,957(60)	BLAST SHIELD FOR NUCLEAR REACTOR	L. M. Finch Pasco, Wash.	9/9/69
3,466,361	722,208(60)	TECHNETIUM-99m LABELED CHELATES	P. Richards Bayport, N. Y. J. Baranosky Stony Brook, N. Y.	9/9/69
3,466,445	674,068(60)	CONTAINER FOR RADIOACTIVE FUEL ELEMENT	A. P. Schlies Albuquerque, N. Mex.	9/9/69
3,466,499	626,674(60)	CANCELLATION OF EXTERNAL MAGNETIC FIELDS BY INNER AND OUTER CYLINDRICAL CURRENT SHEETS	R. A. Beth Bellport, N. Y.	9/9/69
3,466,554	623,190(60)	ACCELERATOR APPARATUS AND METHOD OF SHAPING CAVITY FIELDS	S. T. Giordano Port Jefferson, N. Y.	9/9/69
3,466,590	697,508(60)	GROUNDING DEVICE IN AN ELECTRICAL CONNECTOR	R. T. Sylvester Albuquerque, N. Mex.	9/9/69
3,468,169	701,008(60)	QUICK RELEASE COUPLING	E. F. Welch Kansas City, Mo.	9/23/69
3,468,757	721,738(60)	FUEL SUBASSEMBLY FOR A LIQUID-METAL-COOLED, FAST BREEDER NUCLEAR REACTOR	L. M. Finch A. J. Anthony Pasco, Wash.	9/23/69
3,469,254	505,764(60)	ANALOG-TO-DIGITAL CONVERTER	H. H. Goosey Aiken, S. C. E. R. Brady Sierra Madre, Calif.	9/23/69
3,469,936	690,109(60)	BROMINE PENTAFLUORIDE DISPOSAL	A. A. Chilenskas J. E. Kincinas Chicago, Ill.	9/30/69
3,470,372	523,002(60)	FOG DENSITY MEASUREMENT BY X-RAY SCATTERING	J. G. Bayly Deep River, Ontario, Canada	9/30/69
3,470,460	625,920(60)	STRETCHED REFERENCE WIRE MAGNETIC PICKUP ALIGNMENT SYSTEM	W. K. H. Panofsky Los Altos Hills, Calif. W. F. Marshall San Carlos, Calif.	9/30/69
3,470,462	402,578(60)	LOW VSWR MEASUREMENT SYSTEM WITH SLIDING LOAD AND PROBE	B. O. Weinschel Bethesda, Md.	9/30/69
3,470,503	703,630(60)	MULTI-CONTACT SELECTOR SWITCH FOR HIGH CURRENTS	W. L. Dexter Orinda, Calif.	9/30/69

PATENTS FOR LICENSING

PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,470,902	620,211(60)	LIQUID FLOW CONTROL DEVICE	J. R. Hackman Mount Juliet, Tenn.	10/7/69
3,471,238	591,655(60)	INTERFEROMETIC METHOD AND APPARATUS	R. S. Hawke Livermore, Calif.	10/7/69
3,471,314	601,826(60)	PYROLYTIC CARBON COATING PROCESS	R. L. Beatty Oak Ridge, Tenn. D. V. Kiplinger Concord, Tenn.	10/7/69
3,471,414	767,821(60)	CASTABLE NEUTRON SHIELD	K. T. Faler Pocatello, Idaho	10/7/69
3,471,668	683,375(60)	ROLLER-BAND DEVICES	D. F. Wilkes Albuquerque, N. Mex.	10/7/69
3,471,783	620,212(60)	REFLECTIVE ATTENUATION AND DISPLAY OF PULSE SIGNAL BY MEANS OF AN ABRUPT IMPEDANCE TRANSITION IN A TRANSMISSION LINE	R. J. Thomas Oakland, Calif.	10/7/69
3,471,826	540,092(60)	ELECTRICAL CONNECTOR FOR USE IN LIQUID METAL	E. Hutter Chicago, Ill. H. H. Hooker Naperville, Ill.	10/7/69
3,472,633	749,724(60)	LIQUID-LIQUID REMOVAL OF PROTACTINIUM FROM SPENT MOLTEN SALT MIXTURES CONTAINING URANIUM TETRAFLUORIDE	L. E. McNeese M. E. Whatley Oak Ridge, Tenn. J. S. Watson Knoxville, Tenn.	10/14/69
3,472,677	538,923(60)	METHOD FOR APPLYING LOW DENSITY CARBON COATINGS	H. Beutler Oak Ridge, Tenn. M. C. Payne Cincinnati, O.	10/14/69
3,473,029	614,783(60)	RADIATION PLUG FOR A PARTICLE ACCELERATOR BEAM TUBE	G. W. Parker Downers Grove, Ill.	10/14/69
3,473,897	745,837(60)	METHOD FOR SEPARATING URANIUM AND PROTACTINIUM FROM SPENT MOLTEN FLUORIDE SALT MIXTURES CONTAINING RARE EARTH	J. H. Shaffer W. R. Grimes Oak Ridge, Tenn. D. M. Moulton Knoxville, Tenn.	10/21/69
3,474,007	594,318(60)	MOLYBDENUM OXIDE FILM RESISTOR AND THE METHOD OF MAKING SAME	J. C. Hogan Cincinnati, O.	10/21/69
3,474,022	668,311(60)	ALARM SYSTEM FOR UF_6 IN AIR	H. D. Culpepper W. O. Gentry Oak Ridge, Tenn.	10/21/69
3,474,671	712,974(60)	DEVICE FOR MEASURING THE TEMPERATURE OF A BODY UTILIZING THE INFRARED ENERGY RADIATION THEREFROM	W. J. Byron Idaho Falls, Idaho	10/28/69
3,475,309	648,544(60)	METHOD OF MAKING PARAMAGNETIC NICKEL FERRITE THIN FILMS	R. J. Brook Los Angeles, Calif. W. D. Kingery Marion, Mass.	10/28/69
3,475,620	694,545(60)	HEAVY CURRENT ARCING SWITCH	J. G. Murray Cranbury, N. J. E. D. Simon G. Bronner Trenton, N. J. G. D. Edmonds Princeton, N. J.	10/28/69
3,475,698	716,761(60)	TRANSISTOR OSCILLATOR HAVING INTERCHANGEABLE REACTIVE NETWORKS	J. B. Noe Albuquerque, N. Mex.	10/28/69
3,475,808	623,181(60)	METHOD OF CHANGING GLOVES IN A CONTROLLED ENVIRONMENT BOX	J. W. Woolsey Los Alamos, N. Mex.	11/4/69
3,475,825	726,301(60)	APPARATUS FOR CHECKING DISTORTION OF A REACTOR FUEL ELEMENT	K. O. Creek Richland, Wash. D. W. Leiby Cincinnati, O..	11/4/69

3,476,526	639,597(60)	PROCESS FOR RECOVERING FILLER FROM ELASTOMER	L. W. Hartzel Dayton, O.	11/4/69	3,480,366	580,569(60)	METHOD AND APPARATUS FOR DETERMINING IMAGE ASYMMETRY IN OPTICAL LENSES	D. U. Norgren Orinda, Calif. 11/25/69
3,476,645	769,661(60)	FUEL SEGREGATION LOADING ARRANGEMENT IN NUCLEAR FUEL ELEMENTS	R. F. Turner San Diego, Calif.	11/4/69	3,480,490	388,987(60)	MULTIPHASE EXTRUDABLE EXPLOSIVES CONTAINING CYCLOTRIMETHYLENETRINITRAMINE OR CYCLOTETRAMETHYLENETETRANITRAMINE	H. Finger Hayward, Calif. 11/25/69 E. James, Jr. Castro Valley, Calif. P. B. Archibald Pleasanton, Calif.
3,476,691	398,734(60)	PROCESS FOR PREPARING AN YTTRIA AQUASOL	J. G. Smith	11/4/69				
3,476,919	508,171(60)	MAGNETICALLY SETTABLE COUNTER	G. R. Bachend Albuquerque, N. Mex.	11/4/69	3,480,793	569,761(60)	LOGARITHMIC FUNCTION GENERATOR	M. G. Strauss Downers Grove, Ill. 11/25/69
3,478,189	677,009(60)	WHEEL-TYPE ELECTRODE FOR WELDING BERYLLIUM METAL	C. L. Estes Oak Ridge, Tenn.	11/11/69	3,480,870	596,734(60)	PARAMETRIC PRE-AMPLIFIER CIRCUIT FOR CHARGED PARTICLE DETECTORS	R. L. Chase Blue Point, N. Y. 11/25/69 V. Radeka Upton, N. Y.
3,478,208	607,610(60)	2-ARYL INDOLES AND METHODS FOR THEIR USE	D. L. Horrocks Naperville, Ill. H. O. Wirth Argonne, Ill.	11/11/69	3,480,921	402,371(60)	PULSE RECORDING MEANS	R. P. Matthews Albuquerque, N. Mex. 11/25/69 G. J. Simmons Cedar Crest, N. Mex. W. J. Wymer Albuquerque, N. Mex.
3,478,886	628,249(60)	GRAFT-COPOLYMER COLUMN SUPPORT MATERIAL FOR LIQUID-LIQUID PARTITION CHROMATOGRAPHY	R. F. Hornbeck Livermore, Calif.	11/18/69				
3,479,147	596,342(60)	EXTRACTION OF LITHIUM VALUES	DeWayne A. Lee Knoxville, Tenn.	11/18/69	3,482,003	690,700(60)	METHOD OF EXTRUSION OF RIBBED COMPOSITE MEMBERS	R. W. Levan N. Augusta, S. C. 12/2/69
3,479,250	694,728(60)	IN-REACTOR CONTROL DRIVE SYSTEM	C. C. Ripley San Jose, Calif.	11/18/69	3,482,144	639,255(60)	PHANTASTRON DRIVE FOR IGNITRONS	T. T. Anderson Downers Grove, Ill. 12/2/69
3,479,295	669,956(60)	METHOD OF REDUCING RADIOACTIVE WASTE SOLUTION TO DRYNESS	T. K. Thompson Idaho Falls, Idaho	11/18/69	3,482,376	740,365(60)	APPARATUS FOR CONTINUOUS CHROMATOGRAPHIC SEPARATIONS	E. J. Tuthill Belle Terre, N. Y. 12/9/69 J. J. Reilly, Jr. Bellport, N. Y.
3,479,423	609,298(60)	METHOD OF FORMING COMPACTED GRAPHITE BODIES	C. Wohlberg Greensburg, Pa.	11/18/69	3,482,692	764,476(60)	ELUTRIATOR	A. K. Postma Benton City, Wash. 12/9/69
3,479,555	685,179(60)	COAXIAL LIGHT SOURCE WITH SERIES IMPEDANCE WITHIN THE ENVELOPE	E. L. Garwin Los Alatos Hills, Calif.	11/18/69	3,482,940	707,476(60)	HIGH PRESSURE PREPARATION OF YTTRIUM SESQUICARBIDE	M. C. Krupka A. L. Giorgi N. H. Krikorian E. G. Szklarz Los Alamos, N. Mex. 12/9/69
3,479,745	797,764(60)	DIMENSIONAL MEASURING MACHINE FOR TEST SPECIMENS	E. H. Lorbeer Livermore, Calif.	11/25/69				

3,482,949	736,033(60)	NEPTUNIUM SEPARATION FROM URANIUM	LaVerne E. Trevorrow Glen Ellyn, Ill. T. J. Gerding Downers Grove, Ill. M. J. Steindler Park Forest, Ill.	12/9/69
3,483,081	282,181(60)	STABILITY IMPROVEMENT FOR NUCLEAR REACTOR AUTOMATIC CONTROL SYSTEM	D. W. Sparks LaGrange, Ill. J. H. Tessier Ingleside, Ill.	12/9/69
3,483,211	640,446(60)	3-PICRYLAMINO-1,2,4-TRIAZOLE AND ITS PREPARATION	M. D. Coburn Los Alamos, N. Mex.	12/9/69
3,483,377	680,428(60)	POSITION-SENSITIVE RADIATION DETECTOR	C. J. Borkowski M. K. Kopp Oak Ridge, Tenn.	12/9/69
3,483,913	625,919(60)	METHOD OF MOLTEN METAL SEPARATION	D. E. Grosvenor Burr Ridge, Ill. W. E. Miller Naperville, Ill.	12/16/69
3,483,980	612,291(60)	COLD TRAP FILTER	J. T. Cochran San Jose, Calif. G. D. Collins Los Altos, Calif.	12/16/69
3,484,391	542,697(60)	PHENOLIC FOAM COMPOSITION	S. J. Wheatley Clinton, Tenn. D. B. Rains Kingston, Tenn.	12/16/69
3,484,610	761,470(60)	STIMULATED EXOELECTRON EMISSION DOSIMETERS	K. H. Becker Oak Ridge, Tenn.	12/16/69
3,484,689	597,809(60)	ANALYSIS OF NONREPETITIVE PULSE WAVEFORMS BY SELECTION AND STORAGE OF PULSE INCREMENTS	Q. A. Kerns Orinda, Calif.	12/16/69
3,484,703	593,599(60)	PULSE HEIGHT COMPENSATION IN TIME TO AMPLITUDE CONVERSION	P. A. Thieberger Shirley, N. Y.	12/16/69
3,484,770	577,117(60)	MALFUNCTION ALARM ANNUNCIATOR	P. R. Cheeseman Princeton, N. J.	12/16/69
3,484,806	710,810(60)	HYDROSTATIC EXTRUSION APPARATUS	R. L. Huddleston Knoxville, Tenn.	12/16/69
3,484,867	726,006(60)	THERMALLY STABILIZED CLASS A OR CLASS B COMPLEMENTARY TRANSISTOR PUSH-PULL AMPLIFIER	G. L. Babcock Menlo Park, Calif.	12/16/69
3,485,159	644,465(60)	HIGH-SPEED FRAMING CAMERA SYSTEM	G. H. McCall Princeton, N. J.	12/23/69
3,485,177	725,374(60)	CENTRIFUGAL PUMP HAVING A SHAFTLESS IMPELLER	H. S. Clay Palo Alto, Calif.	12/23/69
3,485,360	660,892(60)	PARTICLE SEPARATOR	H. P Deinken Dale Ball J. A. Zastrow Los Alamos, N. Mex. J. Hill Espanola, N. Mex.	12/23/69
3,485,716	679,826(60)	METHOD AND APPARATUS FOR INJECTING AND TRAPPING CHARGED PARTICLES IN A MAGNETIC FIELD	S. E. Bodner Berkeley, Calif.	12/23/69
3,485,757	413,283(60)	THERMOELECTRIC COMPOSITION COMPRISING DOPED BISMUTH TELLURIDE SILICON AND BORON	S. S. Shapiro Trenton, N. J.	12/23/69
3,486,094	591,656(60)	CIRCUITRY FOR OBTAINING PRECISELY CONTROLLABLE MOTION IN A MOVING COIL ACTUATOR	R. Zane Richmond, Calif.	12/23/69
3,486,146	669,955(60)	SUPERCONDUCTOR MAGNET AND METHOD	J. E. C. Williams Cambridge, Mass.	12/23/69
3,486,885	628,167(60)	STAINLESS STEEL ALLOY WITH LOW PHOSPHORUS CONTENT	J. S. Armijo Newark, Calif.	12/30/69
3,486,975	694,537(60)	FLUIDIC ACTUATED CONTROL ROD DRIVE SYSTEM	C. C. Ripley San Jose, Calif.	12/30/69

3,486,977	712,565(60)	NEUTRONIC REACTOR WITH NATURAL CIRCULATION OF FLUID FUEL	J. J. Geist Schagen, N. Holland, Netherlands	12/10/69
3,486,979	586,604(60)	METHOD OF PREVENTING PLUTONIUM LEAKAGE	C. Wohlberg Los Alamos, N. Mex.	12/30/69
3,487,205	656,997(60)	CONTROLLED FIELD LIGHT-PROBE ELECTRONIC ANALOG COMPUTER AND FUNCTION GENERATOR	W. G. Downing, Jr. Livermore, Calif.	12/30/69
3,487,265	690,290(60)	PROTECTION CIRCUIT HAVING EXTENDED RANGE FUSE CHARACTERISTICS	K. Aeland Livermore, Calif.	12/30/69
3,487,342	703,654(60)	MAGNETIC REPULSION ACTUATED SWITCH	N. J. Gibson Berkeley, Calif. H. H. Graham Livermore, Calif.	12/30/69

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,488,159	822,216(60)	JET-PULSED LIQUID-LIQUID EXTRACTION COLUMN	J. S. Noon Mex. City, Mex. T. Vermeulen Berkeley, Calif.	1/6/70
3,488,221	659,570(60)	ELECTROCHEMICAL CELL	H. Shimotake Hinsdale, Ill. C. E. Johnson Elk Grove, Ill. M. S. Foster Naperville, Ill. E. J. Cairns Downers Grove, Ill.	1/6/70
3,488,231	596,350(60)	TREATMENT OF STEEL	V. F. Zackay Berkeley, Calif. E. R. Parker Oakland, Calif.	1/6/70
3,488,409	681,574(60)	PROCESS FOR CONSOLIDATING NUCLEAR FULL PARTICLES	H. Beutler Oak Ridge, Tenn. J. M. Robbins Oak Ridge, Tenn.	1/6/70
3,488,494	646,802(60)	ION MICROSCOPE THE IMAGE OF WHICH REPRESENTS THE ITENSITY OF SECONDARY RADIATION AS A FUNCTION OF THE POSITION OF THE PRIMARY IONS CAUSING THE RADIATION	C. A. Tobias Walnut Creek, Calif.	1/6/70
3,488,993	707,541(60)	AMBIENT FLUID SAMPLER	G. S. Raynor Manorville, N. Y.	1/13/70
3,489,899	691,746(60)	CALORIMETRIC METHOD OF MEASURING RADIATION BY SOLUTION CONDUCTIVITY CHANGE	K. H. Schmidt Downers Grove, Ill.	1/13/70
3,489,900	694,706(60)	DOSIMETER FOR PERMANENTLY RECORDING THE EFFECTS OF AN INTEGRATED FAST NEUTRON DOSE	R. H. Kernohan Oak Ridge, Tenn. S. T. Sekula Oak Ridge, Tenn.	1/13/70

8,490,438	645,572(60)	PERFUSION CHAMBER AND CANNULAE THEREFOR	A. A. Berndt Chicago, Ill. A. R. Lavender Chicago, Ill. J. J. Stupka Chicago, Ill.	1/20/70
3,490,881	755,718(60)	URANIUM OXIDE FLUORINATION WITH FLUORINE AND FLUORINE INTERHALOGENS	J. T. Holmes Downers Grove, Ill. D. R. Vissers Naperville, Ill. J. D. Gabor Western Springs, Ill. I. E. Knudsen Murrysville, Pa.	1/20/70
3,491,003	652,655(60)	METHOD OF SEPARATING POLONIUM FROM IRRADIATED BISMUTH	R. J. Baltisberger Dayton, O.	1/20/70
3,491,253	595,539(60)	CURRENT INTEGRATOR	F. M. Glass Oak Ridge, Tenn.	1/20/70
3,491,289	784,342(60)	NON-CONTACT EDDY CURRENT INSTRUMENT	R. R. Petrini Livermore, Calif.	1/20/70
3,491,293	726,007(60)	WIDE-RANGE MEGOHMMETER HAVING AN F.E.T. RESPONSIVE TO RAPID CHANGES IN MEASURED RESISTANCE VALUES	G. E. Seaborn, Jr. Oak Ridge, Tenn.	1/20/70
3,491,294	588,268(60)	PULSE ENERGY QUANTIZER	R. I. Little Barrington, Ill. B. G. Nelson Idaho Falls, Idaho F. L. Petree Hamden, Conn.	1/20/70
3,491,296	624,670(60)	PRECISE PEAK VOLTAGE DETECTION OF EQUAL REPETITIVE PULSES BY DIMINISHING CHARGING OF A CAPACITOR	M. Fishman Saratoga, Calif.	1/20/70
3,491,318	753,189(60)	BASEBALL SEAM MAGNET WITH VARIABLE MAGNETIC FIELD	C. D. Henning Livermore, Calif. A. K. Chargin San Jose, Calif.	1/20/70
3,491,513	769,658(60)	TELLURIUM HEXAFLUORIDE REMOVAL METHOD	D. R. Vissers Naperville, Ill. M. J. Steindler Forest, Ill. J. T. Holmes Downers Grove, Ill.	1/27/70
3,491,540	730,853(60)	METHOD OF STORING LIQUIDS UNDERGROUND	W. L. Lennemann Rockville, Md.	1/27/70
3,491,822	713,406(60)	SEA WATER DESALINATION	D. Ramaswami Hinsdale, Ill. A. A. Jonke Elenhurst, Ill.	1/27/70
3,492,030	761,471(60)	BELLOWS LINER	C. W. Harrison Pasco, Wash. E. A. Lund Richland, Wash.	1/27/70
3,492,160	716,436(60)	SELF REGENERATING STORAGE BATTERY	G. L. Silver Centerville, O.	1/27/70
3,492,217	654,036(60)	ELECTROLYTIC DISSOLVER	D. P. Keeler Bartlesville, Okla. W. B. Kerr Idaho Falls, Idaho W. G. Rounds Idaho Falls, Idaho	1/27/70
3,492,238	599,675(60)	SODIUM PHOSPHATE-CITRIC ACID-EDTA CLEANING SOLUTIONS FOR SCALED FERROUS METALS	C. Wohlberg Hempfield, Township, Pa.	1/27/70
3,493,743	710,769(60)	METHOD OF MEASURING OXYGEN CONTAMINATION OF LIQUID SODIUM	L. Newman Smithtown, N. Y.	2/3/70
3,493,792	811,903(60)	CONTROLLING CESIUM RESERVOIR TEMPERATURE FOR THERMIONIC CONVERTERS	S. Untermyer II Portola Valley, Calif.	2/3/70

3,494,743	679,827(60)	VAPOR PHASE REACTOR FOR PRODUCING MULTICOMPONENT COMPOUNDS	J. Baughman Albuquerque, N. Mex. J. A. Corll Albuquerque, N. Mex.	2/10/70
3,494,805	625,908(60)	METHOD OF INHIBITING THE CORROSION OF TANTALUM BY LIQUID LITHIUM AT HIGH TEMPERATURES	J. Y. N. Wang Lockport, Ill.	2/10/70
3,495,125	710,542(60)	QUARTER-WAVE TRANSMISSION LINE RADIO FREQUENCY VOLTAGE STEP-UP TRANSFORMER	R. F. Koontz	2/10/70
3,495,975	774,507(60)	EXTRACTION OF PROTACTINIUM FROM MOLTEN SALT MIXTURES INTO BISMUTH-TIN SOLUTION	W. R. Grimes OakRidge, Tenn. D. M. Moulton Knoxville, Tenn. J. H. Shaffer Oak Ridge, Tenn.	2/17/70
3,496,017	546,489(60)	METHOD AND COMPOSITION FOR DECONTAMINATION OF STAINLESS STEEL SURFACES	R. D. Weed Richland, Wash.	2/17/70
3,496,030	601,823(60)	ANTI-SEIZING SURFACES	R. M. Powers Stormville, N. Y.	2/17/70
3,496,463	709,625(60)	POSITION MONITORING SYSTEM FOR A PULSE-MODULATED CHARGED PARTICLE BEAM	L. H. Johnston Moscow, Idaho W. B. Pierce Los Altos, Calif.	2/17/70
3,497,332	834,215(60)	BRAZING ALLOY FOR JOINING GRAPHITE TO GRAPHITE AND TO REFRACTORY METALS	R. G. Donnelly Oak Ridge, Tenn. J. M. Jones Oak Ridge, Tenn.	2/24/70
3,498,852	805,864(60)	ACCELERATING LITHIUM DRIFT-IN GERMANIUM	H. A. Jamini Mayfield Heights, O.	3/3/70
3,499,704	668,307(60)	FERROELECTRIC CERAMIC ELECTRO-OPTICAL DEVICE	C. E. Land Albuquerque, N. Mex. I. D. McKinney Albuquerque, N. Mex.	3/10/70
3,500,023	593,600(60)	STUTTER COUNTING CIRCUIT FOR A DIGITAL CONTROL SYSTEM	J. L. Arrowood Oak Ridge, Tenn.	3/10/70
3,500,077	691,861(60)	METHOD AND APPARATUS FOR ACCELERATING IONS OUT OF A HOT PLASMA REGION	R. F. Post Walnut Creek, Calif.	3/10/70
3,501,126	681,684(60)	HIGH CONDUCTANCE HIGH PRESSURE VALVE	J. Katich Boulder, Colo. B. J. Williams Arvada, Colo.	3/17/70
3,501,340	679,639(60)	METHOD OF CLEANING GLASS AND QUARTZ SURFACES	M. Burton Mishawaka, Ind.	3/17/70
3,501,377	797,744(60)	PRESSURE BALANCED FUEL BUNDLE INLET	J. H. Germer San Jose, Calif.	3/17/70
3,501,634	710,813(60)	WHOLE-BODY RADIATION COUNTER WITH MEANS FOR CONTROLLING THE SCANNING VELOCITY	W. C. Roesch Richland, Wash.	3/17/70
3,501,643	766,416(60)	FLYING IMAGE DIGITIZER UTILIZING MEANS FOR SWEEPING THE FOCUSED IMAGE PAST A LINEAR ARRAY OF PHOTO-DETECTORS AND GRATING MEANS FOR LOCATING RECORDED DATA IN SPACE AND TIME	M. Kawaguti Upton, N. Y.	3/17/70
3,501,708	672,651(60)	HIGH COUNTING-RATE BASE LINE RESTORATION	R. L. Chase Blue Point, N. Y. L. R. Poulo Watertown, Mass.	3/17/70
3,501,734	666,564(60)	METHOD AND DEVICE FOR STABILIZATION OF THE FIELD DISTRIBUTION IN DRIFT TUBE LINAC	E. A. Knapp Los Alamos, N. Mex. J. M. Potter Los Alamos, N. Mex. D. A. Swenson Los Alamos, N. Mex.	3/17/70
3,502,450	659,567(60)	COMPOSITE STRUCTURE WELDED WITH TUNGSTEN-CONTAINING NICKEL-BASE FILLER METAL	H. E. McCoy Oak Ridge, Tenn. D. A. Canonico Oak Ridge, Tenn.	3/24/70

3,503,789	637,878(60)	METHOD OF MAKING A DYNAMIC SOLUTE-REJECTING MEMBRANE	J. S. Johnson Oak Ridge, Tenn. K. A. Kraus Oak Ridge, Tenn.	3/31/70
3,503,893	609,719(60)	PROCESS FOR PRODUCING CHEMILUMINESCENCE BY REDUCTION OF METAL CHELATES	D. M. Hercules Arlington, Mass. F. E. Lytle Cambridge, Mass.	3/31/70
3,504,044	758,381(60)	PROCESS FOR SYNTHESIZING TRUXENE	W. L. Harper Wartburg, Tenn. W. E. Smith Oak Ridge, Tenn.	3/31/70
3,504,341	610,700(60)	SHIFT REGISTER COMPARATOR	R. L. Snyder New Smyrna, Beach, Fla.	3/31/70
3,504,494	771,218(60)	INTERMITTENT POWER SOURCE	W. E. Winsche Bellport, N. Y.	4/7/70
3,505,064	500,529(60)	HAFNIUM ALLOY	J. W. Hock Export, Pa. J. F. Higon New Kensington, Pa.	4/7/70
3,505,095	628,790(60)	PRE-PLATING TREATMENT FOR MARAGING STEELS	G. S. Petit Oak Ridge, Tenn. R. R. Wright Oak Ridge, Tenn.	4/7/70
3,505,138	12,947(60)	METHOD OF JOINING BERYLLIA TO ANOTHER CERAMIC BODY	J. H. Nuding Canoga Park, Calif	4/7/70
3,505,170	720,198(60)	FUEL SUBASSEMBLY FOR A LIQUID-METAL-COOLED FAST REACTOR	M. T. Jakub Richland, Wash. C. D. Flowers Richland, Wash.	4/7/70
3,505,523	749,725(60)	PERSONNEL RADON DOSIMETER	K. H. Becker Oak Ridge, Tenn.	4/7/70
3,505,538	634,794(60)	SUPERCONDUCTOR GATING OR SWITCHING DEVICES	J. L. Artley Durham, N. C.	4/7/70
3,506,235	667,638(60)	FUEL CASTING APPARATUS WITH COLLAPSIBLE CORE	N. H. Katz Northridge, Calif. R. N. Leam Chatsworth, Calif.	4/14/70
3,506,847	679,829(60)	LOGARITHMIC CONVERTER	O. E. Schow, III Oak Ridge, Tenn.	4/14/70
3,506,865	656,956(60)	STABILIZATION OF CHARGED PARTICLE BEAMS	R. J. Briggs Lexington, Mass.	4/14/70
3,508,414	710,663(60)	METHOD OF STORING HYDROGEN	R. H. Wiswall, Jr. Brookhaven, N. Y. J. J. Reilly, Jr. Bellport, N. Y.	4/28/70
3,508,799	746,576(60)	GAS BEARINGS	C. M. Gordon Danville, Calif.	4/28/70
3,508,862	658,989(60)	PROCESS FOR SEPARATION OF NIOBIUM AND TANTALUM	F. D. Stevenson Ames, Iowa J. E. Conway Ames, Iowa	4/28/70
3,509,758	760,050(60)	GAS LEAK RATE MONITOR	J. B. Newman Idaho Falls, Idaho	5/5/70
3,510,102	751,103(60)	VALVE ASSEMBLY	Z. F. Sungaila Chicago, Ill.	5/5/70
3,510,270	661,167(60)	RECLAMATION OF LITHIUM ALUMINATE TARGET ELEMENTS	R. Cooperstein Kennewick, Wash.	5/5/70
3,510,434	735,141(60)	METHOD OF PREPARING A NITRIDE NUCLEAR REACTOR FUEL	E. T. Weber Kennewick, Wash. W. O. Greenhalgh Richland, Wash.	5/5/70
3,510,691	609,731(60)	PULSE STRETCHING CIRCUIT	R. N. Larsen Houghton, Mich.	5/5/70
3,512,852	805,161(60)	STABILIZED LEVITATION OF MAGNETIC ELEMENTS	G. C. North Santa Ana, Calif.	5/19/70

3,512,864	668,306(60)	FERROELECTRIC CERAMIC OPTICAL RETARDATION DEVICES	Gene H. Haertling Albuquerque, N. Mex. Cecil E. Land Albuquerque, N. Mex. Ira D. McKinney Albuquerque, N. Mex.	5/19/70
3,512,891	722,446(60)	SPHERICAL INTERFEROMETER	R. R. Baldwin Clinton, Tenn.	5/19/70
3,513,101	724,261(60)	PREPARATION OF STABLE SOLS OF THORIA-URANIUM TRIOXIDE	A. D. Meservey Oak Ridge, Tenn.	5/19/70
3,513,229	753,049(60)	METHOD FOR PRESSING THIN WALLED BORON NITRIDE ARTICLES UTILIZING A LIQUID NITROGEN PRETREATMENT	J. J. Asbury Knoxville, Tenn.	5/19/70
3,513,351	740,203(60)	DUOPLASMATON-TYPE ION SOURCE INCLUDING A GAS RESERVOIR	G. G. Kelley Kingston, Tenn.	5/19/70
3,513,699	681,635(60)	ADIABATIC CALORIMETER	J. J. Reilly, Jr. Bellport, N. Y.	5/26/70
3,513,704	827,843(60)	PHOTOMETRIC THERMOMETER AND METHOD OF OPERATION	D. W. Hatcher Clinton, Tenn.	5/26/70
3,514,218	786,559(60)	SINGLE ACTING FOLLOWER HEART ASSIST DEVICE	C. A. Maher, Jr. Wakefield, Mass.	5/26/70
3,514,344	672,650(60)	METHOD OF IMPROVING THE CORROSION RESISTANCE OF STAINLESS STEEL TO SODIUM	F. A. Smith Lockport, Ill. E. L. Kimout Evergreen Park, Ill.	5/26/70
3,514,373	602,133(60)	FISSIOCHEMICAL PROCESS AND FUEL	B. H. Hamling Warwick, N. Y.	5/26/70
3,514,613	784,719(60)	SYSTEM PROVIDING STABLE PULSE DISPLAY FOR SOLUTION ANALYZER	D. N. Washburn Clinton, Tenn.	5/26/70
3,514,730	716,496(60)	COOLING SPACER STRIP FOR SUPERCONDUCTING MAGNETS	D. A. Kassner Patchogue, N. Y.	5/26/70
3,514,763	806,648(60)	TOTALIZING MEMORY FOR MULTICHANNEL ANALYZERS WITH INCREASED CAPACITY	N. A. Betz Oak Ridge, Tenn. Walter R. Burrus Oak Ridge, Tenn. T. A. Lewis Knoxville, Tenn. J. W. Reynolds Oak Ridge, Tenn. G. G. Slaughter Oak Ridge, Tenn. J. G. Sullivan Knoxville, Tenn.	5/26/70
3,515,309	768,629(60)	SENSITIVE BURST DIAPHRAGM FOR RELIEF OF OVERPRESSURES	K. M. Welch Palo Alto, Calif.	6/2/70
3,515,486	685,178(60)	OPTICAL RANGING DEVICE	R. H. Vonderohe Downers Grove, Ill. J. H. Doede Shorewood, Minn. C. W. Lindenmeyer Aurora, Ill.	6/2/70
3,515,545	671,883(60)	REFRACTORY AND CERAMIC BRAZING ALLOYS	D. A. Canonico Oak Ridge, Tenn. L. G. Bryson Powell, Tenn. G. M. Slaughter Oak Ridge, Tenn.	6/2/70
3,515,674	637,877(60)	PROCESS FOR PRODUCING CHEMILUMINESCENCE BY REDUCTION OF THE 1, 6 DIAMINOPYRENE RADICAL CATION	D. M. Hercules Arlington, Mass. F. E. Lytle Cambridge, Mass.	6/2/70
3,516,263	810,281(60)	METHOD OF STORING HYDROGEN	R. H. Wiswall, Jr. Brookhaven, N. Y. J. J. Reilly, Jr. Bellport, N. Y.	6/23/70
3,516,878	609,718(60)	ULTRA-HIGH STRENGTH PRESSURE VESSEL	D. J. Sandstrom Los Alamos, N. Mex. D. A. Law Los Alamos, N. Mex.	6/23/70

3,517,092	721,144(60)	PROCESS FOR PREPARING HIGH DENSITY ISOTROPIC GRAPHITE STRUCTURES	G. R. Peterson Andersonville, Tenn.	6/23/70
3,517,193	756,268(60)	MAGNETICALLY PULSED TIME-OF-FLIGHT NEUTRON SPECTROMETER	H. A. Hook, Jr. Oak Ridge, Tenn. M. K. Wilkinson Oak Ridge, Tenn. G. W. Clark Oak Ridge, Tenn. D. D. Bates Oak Ridge, Tenn.	6/23/70
3,517,194	776,220(60)	POSITION-SENSITIVE RADIATION DETECTOR	C. J. Borkowski Oak Ridge, Tenn. M. K. Kopp Oak Ridge, Tenn.	6/23/70
3,517,195	742,090(60)	HIGH INTENSITY X-RAY TUBE	G. A. Lavitt Livermore, Calif.	6/23/70
3,517,265	721,757(60)	DEIONIZING AND FAULT PROTECTION CIRCUIT FOR A LINE-TYPE PULSER	R. W. Bradford Menlo Park, Calif.	6/23/70
3,517,322	699,575(60)	PHASE DETECTOR	C. H. Ley Oak Ridge, Tenn.	6/23/70
3,517,431	635,961(60)	METHOD OF MAKING COMBINATION FUEL RODS	J. E. Ayer Joliet, Ill.	6/30/70
3,517,432	726,244(60)	DIFFUSION BONDING OF CERAMICS	D. J. Sandstrom Los Alamos, N. Mex.	6/30/70
3,518,063	672,649(60)	PURIFICATION OF BERYLLIUM BY LIQUID-LIQUID EXTRACTION	F. G. Seeley Oak Ridge, Tenn. D. J. Crouse, Jr.	6/30/70
3,518,163	718,685(60)	SODIUM-COOLED FAST-FLUX TEST REACTOR	D. R. deBoisblanc Idaho Falls, Idaho	6/30/70
3,518,414	643,324(60)	DIGITAL FILTER FOR SUPPRESSING NONSTATISTICAL NOISE BURSTS IN DIGITAL AVERAGING	L. S. Goodman Downers Grove, Ill. F. O. Salter Glen Ellyn, Ill.	6/30/70
3,518,427	734,688(60)	A UNIVERSAL PLANAR X-RAY RESONATOR	R. M. J. Cotterill Downers Grove, Ill.	6/30/70
3,518,496	700,234(60)	SUPERCONDUCTOR MAGNETIC ENERGY STORAGE SYSTEM	D. G. Schweitzer Bayport, N. Y.	6/30/70

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3,518,861	747,904(60)	METHOD OF MAKING AN OMEGA SHAPED ANNULUS	L. E. Genens Mokena, Ill. R. Kleb Downers Grove, Ill.	7/7/70
3,519,328	684,135(60)	SHORT DURATION OPTICAL SHUTTER	D. D. Grossman Cambridge, Mass.	7/7/70
3,519,374	740,235(60)	PARTIAL ADMISSION VALVE MECHANISM FOR ROTARY ENGINE	P. O. Tauson Bradford Woods, Pa.	7/7/70
3,519,385	712,377(60)	METHOD FOR SEPARATING MOLYBDENUM FROM TECHNETIUM	E. C. Hurst Powell, Tenn. H. B. Hupf Oak Ridge, Tenn.	7/7/70
3,519,400	612,297(60)	METHOD OF CENTRIFUGAL SEPARATION AND RECOVERY OF CHEMICAL SPECIES UTILIZING A LIQUID MEDIUM	N. G. Anderson Oak Ridge, Tenn.	7/7/70
3,519,490	685,059(60)	HIGH TEMPERATURE THERMAL CONTROL FOIL SHUTTER	A. R. Lieberman Baltimore, Md.	7/7/70
3,519,822	660,883(60)	TIME OF FLIGHT TO KINETIC ENERGY CONVERTER FOR A NUCLEAR PARTICLE SPECTROMETER	G. A. Sleege Ames, Iowa	7/7/70
	LEAR			
3,520,356	581,328(60)	VATOR GENERATOR FOR USE IN A NUCLEAR REACTOR	F. R. Bell R. N. Quade San Diego, Calif.	7/14/70
3,520,482	758,936(60)	PREPARATION AND PURIFICATION OF CRYSTALLINE BORON	M. J. Savitski Dayton, Ohio	7/14/70
3,520,621	639,598(60)	REMOTE LEVELLING MEASUREMENT	R. A. Blesch Lisle, Ill. C. G. Porter New York, N. Y. O. S. Reading Bellport, N. Y.	7/14/70
3,520,640	577,316(60)	FLUID CIRCULATOR	J. S. Yampolsky F. R. Bell P. Fortescue San Diego, Calif.	7/14/70
3,520,644	740,616(60)	ROTARY ENGINE COMPENSATING ECCENTRIC	R. W. Kalkbrenner Irwin, Pa.	7/14/70
3,520,679	799,911(60)	METHOD FOR REMOVING SILICA FROM SILICEOUS MATERIALS	E. L. Christensen Wm. J. Haraman J. C. Carmichael Los Alamos, N. Mex.	7/14/70
3,520,734	771,511(60)	MOST POWERFUL RADIOISOTOPE HEATED THERMOELECTRIC GENERATOR PROVIDING FOR INTACT RE-ENTRY OF THE HEAT SOURCE MEANS FROM SPACE	M. R. Scheve C. N. Young Baltimore, Md.	7/14/70
3,520,918	711,529(60)	p-Nitrophenyl-p'-Guanidinobenzoate HCl	T. Chase, Jr. Center Moriches, N. Y. E. N. Shaw Shoreham, N. Y.	7/21/70
3,521,089	734,689(60)	PIEZOELECTRIC FEEDTHROUGH DEVICE	O. M. Stuetzer Albuquerque, N. Mex.	7/21/70
3,521,165	761,060(60)	METER FOR MEASURING RMS VALUES OF PULSED CURRENT SIGNALS	A. T. Visser Downers Grove, Ill.	7/21/70
3,521,207	763,260(60)	POWER SUPPLY FOR SUPER CONDUCTING MAGNET	R. B. Britton W. B. Sampson Bellport, N. Y.	7/21/70
3,521,239	698,338(60)	TOTALIZING MEMORY FOR MULTICHANNEL ANALYZERS WITH INCREASED CAPACITY	W. R. Burrus Oak Ridge, Tenn.	7/21/70
3,521,959	664,225(60)	METHOD FOR DIRECT SPECTROGRAPHIC ANALYSIS OF MOLTEN METALS	V. A. Fassel G. W. Dickinson Ames, Iowa	7/28/70
3,522,885	722,445(60)	PARALLEL FLOW HEMODIALYZER	A. R. Lavender Chicago, Ill. F. W. Markley Naperville, Ill.	8/4/70
3,523,677	786,558(60)	FAST ACTING ELECTROMAGNETIC GAS VALVE	G. C. North Santa Ana, Calif.	8/11/70
3,524,056	695,977(60)	DOUBLE FOCUSING SPECTROGRAPH EMPLOYING A ROTATABLE QUADRUPOLE LENS TO MINIMIZE DOPPLER BROADENING	H. A. Enge Winchester, Mass. D. L. Smith Vero Beach, Fla.	8/11/70

3,524,097	722,753(60)	HIGH POWER HYDROGEN THYRATRON	L. Mancebo Livermore, Calif.	8/11/70
3,524,130	758,879(60)	NON-CONTACT SPARK-GAP CURRENT TOOL-SETTING DEVICE	C. Asmanes Oak Ridge, Tenn.	8/11/70
3,524,924	745,262(60)	BACKUP CONTROL ROD SYSTEM	J. H. Germer San Jose, Calif.	8/18/70
3,525,228	796,350(60)	NONBOILING LIQUID TARGET FOR A HIGH-ENERGY PARTICLE BEAM	R. L. Anderson Palo Alto, Calif.	8/25/70
3,525,229	797,080(60)	ON-OFF THERMAL SWITCH FOR A CRYOPUMP	B. S. Denhoy Brentwood, Calif.	8/25/70
3,525,386	793,042(60)	THERMAL CONTROL CHAMBER	G. M. Grover Los Alamos, N. Mex.	8/25/70
3,525,669	764,460(60)	INSULATED DUCTS FOR NUCLEAR REACTOR	J. H. Germer San Jose, Calif.	8/25/70
3,525,670	784,343(60)	TWO-PHASE FLUID CONTROL SYSTEM	N. J. Brown Livermore, Calif.	8/25/70
3,525,953	681,199(60)	PLASMA TUNING MEANS WHEREIN THE RESONANT FREQUENCY OF A CAVITY RESONATOR TRACKS THE FREQUENCY OF AN IONIZING CONTROL FREQUENCY	S. L. Halverson Chicago Hts., Ill.	8/25/70
3,527,098	802,011(60)	GROOVED MELT WIRES	P. G. Salgado J. F. Torbert Los Alamos, N. Mex.	9/8/70
3,527,110	775,742(60)	MIRROR POSITIONER FOR A ROTATING MIRROR CAMERA	B. T. Rogers, Jr. Embudo, N. Mex.	9/8/70
3,527,243	816,238(60)	LIQUID LEVEL CONTROL	H. Montag Plainview, N. Y.	9/8/70
3,527,350	852,701(60)	APPARATUS FOR CONTINUOUS CHROMATOGRAPHY	E. J. Tuthill Belle Terre, N. Y. J. Fedulem Blue Point, N. Y.	9/8/70
3,527,615	824,610(60)	THERMAL BATTERY HAVING PROTECTIVELY COATED CALCIUM ANODE ALLOY SHORTING	R. P. Clark K. A. Grothaus Albuquerque, N. Mex.	9/8/70
3,527,669	730,466(60)	MOLTEN-SALT-FUELED NUCLEAR BREEDER REACTOR AND FUEL CELL FOR USE THEREIN	E. S. Bettis Knoxville, Tenn.	9/8/70
3,527,873	787,419(60)	COMPOSITE SUPERCONDUCTING CABLE HAVING A POROUS MATRIX	H. Brechna Palo Alto, Calif. E. L. Garwin Los Altos Hills, Calif.	9/8/70
3,527,944	766,433,(60)	MULTIPLE SEMI-CONDUCTOR RADIATION DETECTORS WITH COMMON INTRINSIC REGION	H. W. Kraner Bellport, N. Y.	9/8/70
3,527,948	782,577(60)	COBALT-RHENIUM ENERGY SOURCE	F. N. Rhines Gainesville, Fla. J. A. Donovan W. R. McDonell Aiken, S. C.	9/8/70
3,527,977	733,846(60)	MOVING ELECTRONS AS AN ACID TO INITIATING REACTIONS IN THERMONUCLEAR DEVICES	A. E. Ruark Kensington, Md.	9/8/70
3,528,016	690,245(60)	CAPACITOR BIASING FOR VARIABLE REMOTE CONTROL PULSE DELAYS	R. F. Koontz Menlo Park, Calif.	9/8/70
3,528,034	747,953(60)	ESTABLISHMENT OF HARMONIC FREQUENCIES IN A PENNING-TYPE DISCHARGE	E. D. Shipley Knoxville, Tenn. O. C. Yonts Oak Ridge, Tenn.	9/8/70
3,529,046	738,418(60)	UTILIZING LITHIUM OXIDE AND PRECURSORS AS SINTERING AID FOR HOT PRESSING BERYLLIUM OXIDE	R. Hendricks, Jr. Oak Ridge, Tenn.	9/15/70
3,529,234	690,252(60)	VAPOR QUALITY MEASURING DEVICE	R. D. Keen Canoga Park, Calif.	9/15/70
3,530,332	826,098(60)	MULTI-PERIODIC ACCELERATING STRUCTURE	S. T. Giordano Port Jefferson, N. Y.	9/22/70
3,531,182	758,958(60)	MULTIREMANENT FERROELECTRIC CERAMIC OPTICAL DEVICES	C. E. Land D. G. Schueler Albuquerque, N. Mex.	9/29/70
3,531,248	718,351(60)	FORMING GRAPHITE MATERIAL FROM FURFURYL ALCOHOL	H. Shinberg Los Alamos, N. Mex.	9/29/70

3,531,324	841,828(60)	SECONDARY POWER-PRODUCING CELL	A. K. Fischer Western Springs, Ill. V. A. Maroni Riverside, Ill. A. D. Tevebaugh Hinsdale, Ill. E. J. Cairns Downers Grove, Ill.	9/29/70
3,531,340	786,580(60)	METHOD FOR MOUNTING THIN BERYLLIUM WINDOWS	R. F. Bunshah Livermore, Calif. R. S. Juntz Hayward, Calif.	9/29/70
3,531,639	782,563(60)	ENVIRONMENTAL GAS MONITOR FOR LOW LEVEL RADIOACTIVE GASES	J. W. Baum Patchogue, N. Y. P. S. Littlefield Rockland, Mass.	9/29/70

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3,533,047	815,372	HIGH VOLTAGE COAXIAL CONNECTOR	Hugh B. McFarlane	10/6/70
3,533,273	656,640	THERMAL SURFACE IMPEDANCE METHOD AND MEANS FOR NON-DESTRUCTIVE TESTING	Donald R. Green	10/13/70
3,534,409	735,726(60)	IMPLANTABLE CIRCULATORY SUPPORT SYSTEM	J. R. Lance, R. K. Disney, A. Selz & P. O. Tanson	10/20/70
3,534,811	784,738(60)	BALL-LOADED HIGH ENERGY PARTICLE BEAM DUMP	Dieter R. Walz	10/20/70
3,535,059	742,089(60)	ROTARY ENGINE VALVE	Ralph Kalkbrenner	10/20/71
3,535,079	711,746(60)	METHOD FOR FRACTIONATION OF CARBON ISOTOPES	A. A. Palko	10/20/70
3,535,081	758,391(60)	METHOD FOR MAKING GRAPHITE	W. L. Harper and W. E. Smith	10/20/70
3,535,087	771,217(60)	DEVICE FOR PRODUCING AND HYDRATED ELECTRONS	E. J. Hart & K. H. Schmidt	10/20/70
3,535,103	720,391(60)	METHOD OF MAKING METAL ALLOY POWDERS	Cyrus E. Whitfield	10/20/70
3,535,132	690,823(60)	TITANIUM CARBIDE MOLTEN METAL BARRIER AND METHOD OF PRODUCTION	M. C. Lunde	10/20/70
3,535,205	715,080(60)	METHOD FOR EFFECTING UNIFORM RADIATION OF SAMPLES	L. C. Bate and F. F. Dyer	10/20/70
3,535,206	751,102(60)	PNEUMATIC SCRAM ROD DRIVE	John H. Germer	10/20/70
3,535,355	728,348(60)	PROCESS FOR PRODUCING DERIVATIVES OF WEAKLY ACIDIC CHEMICAL COMPOUNDS	W. L. Jolly, T. Birchall and D. S. Rustad	10/20/70

3,535,494	679,782(60)	CURVE-FOLLOWING APPARATUS	J. D. Caylor	10/20/70
3,535,500	648,189(60)	BINARY RADIX CONVERTER	Michael J. C. Hu	10/20/70
3,535,531	749,047(60)	HIGH-VOLUME AIRBORNE-PARTICLE LIGHT SCATTERING DETECTOR SYSTEM HAVING RECTANGULARY SHAPED ELONGATED ZONE	William E. Neitzel	10/20/70
3,535,646	708,907(60)	LOW PASS FILTER CIRCUIT	Truman H. Quinn	10/20/70
3,535,803	825,892(60)	DEPTH GAUGE PROBE ASSEMBLY	K. O. Creek and D. W. Leiby	10/27/70
3,536,106	756,265(60)	METHOD FOR MEASUREMENT AND TRANSFER OF SMALL FLUID VOLUMES	N. C. Anderson	10/27/70
3,536,420	811,904(60)	CONDENSATE PURIFIER FOR DIFFUSION PUMP	Claire E. Miner	10/27/70
3,536,253	801,521(60)	ZONAL CENTRIFUGE	N. G. Anderson and C. E. Nunley	10/27/70
3,536,544	392,073(48)	TRINITROTOLUENE EXPLOSIVE COMPOSITIONS CONTAINING A POLYCYCLIC AROMATIC HYDROCARBON	Otis K. Pennington, Harold J. Gryting Louis McDonald	10/27/70
3,536,793	703,547(60)	METHOD OF MAKING POROUS METAL CARBIDE AGGLOMERATES	R. E. Norman & R. H. Speas	10/27/70
3,537,271	751,101(60)	LEVEL CONTROL FOR CRYOGENIC LIQUIDS	M. Montag	11/3/70
3,537,424	703,596	RESIN IMPREGNATION OF CELLULAR MEMBERS	R. L. Sadler	11/3/70
3,537,966	680,351(60)	RADIATION TREATMENT OF MINE WASTE WATERS	M. Steinberg and J. Pruzansky	11/3/70
3,537,988	703,521(60)	HYPERFILTRATION METHOD REMOVING ORGANIC SOLUTE FROM AQUEOUS SOLUTIONS	A. E. Marcinkowsky J. S. Johnson K. A. Kraus & J. R. Kuppers	11/3/70
3,538,434	645,580	METHOD FOR DETECTING ONE OF HEAVY WATER AND ORDINARY WATER IN THE PRESENCE OF THE OTHER OF HEAVY WATER AND ORDINARY WATER	D. P. Brown, G. F. Garlic and N. S. Porter	11/3/70
3,541,448	727,178(60)	DIGITAL TIME INTERVALOMETER WITH ANALOGUE VERNIER TIMING	R. Nutt	11/17/70
3,541,762	808,120(60)	ANNULAR PACKED-BED FILTER	A. A. Jonke Devabaktuni Ramaswami & N. M. Levitz	11/24/70
3,541,855	781,438	ANEMOMETER FOR MEASURING HORIZONTAL WIND VELOCITIES	P. Frenzen & R. L. Hart	11/24/70
3,542,525	801,390(60)	CYCLING ZONE ADSORPTION PROCESS	R. L. Pigford B. Baker III & D. E. Blum	11/24/70
3,542,995	829,955(60)	MEASUREMENT AND CONTROL OF FOCUS IN ELECTRON BEAM WELDING	R. A. Boone &	11/24/70
3,543,136	792,306(60)	HIGH VOLTAGE DIRECT CURRENT GENERATOR	H. A. Enge	11/24/70
3,543,147	717,262(60)	PHASE ANGLE MEASUREMENT SYSTEM FOR DETERMINING AND CONTROLLING THE RESONANCE OF THE RADIO FREQUENCY ACCELERATING CAVITIES FOR HIGH ENERGY CHARGED PARTICLE ACCELERATORS	V. J. Kovarik	11/24/70
3,543,171	803,904(60)	FERRITE BIAS REGULATOR FOR A SYNCHROTRON RESONATOR	B. H. Smith	11/24/70
3,543,192	703,653(60)	CONSTANT-IMPEDANCE VARIABLE-DELAY TRANSMISSION LINE	E. M. Rowe & R. H. Hilden	11/24/70
3,543,286	819,290(60)	MULTI-GEOMETRIC PATTERN ELECTRIC GENERATOR	R. H. Stentz & A. W. Bauer	11/24/70

3,549,325	721,675(60)	DUAL TEMPERATURE ISOTOPE EXCHANGE PROCESS	D. F. Babcock	12/22/70
3,549,489	769,655(60)	SYSTEM FOR DETECTING SODIUM BOILING IN A REACTOR	P. R. Pluta	12/22/70
3,549,491	777,793(60)	NUCLEAR REACTOR FUEL ELEMENT HOLD-DOWN AND TIGHTING MECHANISM	M. L. Johnson	12/22/70
3,549,492	823,888(60)	FLUID SUPPORTED CAPSULE HOLDER FOR HOMOGENEOUSLY IRRADIATING SAMPLES	E. Ricci T. H. Handley & H. G. Willey	12/22/70
3,549,493	793,040(60)	FAST SODIUM-COOLED REACTOR CORE STRUCTURE	J. H. Germer	12/22/70
3,549,494	751,246(60)	FLOW MEASURING DEVICE FOR SODIUM-COOLED REACTORS	J. H. Germer	12/22/70
3,549,877	629,877(60)	A SYSTEM FOR COMPUTING AND CONTINUOUSLY DISPLAYING INCREMENTS OF MOVEMENT OF AN OBJECT IN USEABLE UNITS OF MEASURE	C. M. Lay	12/22/70
3,550,064	847,870(60)	ELECTRICAL CONNECTOR PLUG AND CONNECTOR ASSEMBLY	J. M. Caller & P. J. Konnick	12/22/70
3,551,119	692,727(35)	A PRECIPITATION METHOD OF RECOVERING ELEMENT 95 FROM CONTAMINANTS	Louis B. Werner	12/29/70
3,544,307	772,073(60)	PURIFICATION OF POLONIUM	R. E. Ellis & C. J. Kershner	12/1/70
3,544,922	813,486(60)	IMPEDANCE MATCHING COUPLER SYSTEM FOR A VARIABLE RESISTIVE LOAD IMPEDANCE	R. A. McConnell	12/1/70
3,545,964	722,209(60)	COLD RECOVERY PROCESS	S. M. Hansen & D. F. Snoeberger	12/8/70
3,546,012	716,592(60)	LITHIUM SULPHATE ULTRA-SONIC TRANSDUCER	N. E. Dixon & W. J. Coleman	12/8/70
3,546,026	,61,057(60)	FIBER STRENGTHENED THERMO-ELECTRIC MATERIAL	E. K. Beauchamp & J. E. Morenz	12/8/70
3,546,423	739,575(60)	WELD WIRE FEED CONTROL	J. A. Chopp, M. O'Brien, M. O. Roberts & H. Scholz	12/8/70
3,546,455	794,501(60)	NEUTRON FLUX PLOTTING DEVICE	K. G. Porges	12/8/70
3,546,485	778,103(60)	BIDIRECTIONAL ANALOG GATE	T. J. Davis	12/8/70
3,546,541	743,700(60)	SUPERCONDUCTING CURRENT LOOP HAVING PREFERENTIAL CURRENT FLOW	D. G. Schweitzer & P. D. Adams	12/8/70
3,546,575	771,795(60)	METHOD AND APPARATUS FOR ENHANCEMENT OF NUCLEAR POLARIZATION BY OPTICAL PUMPING IN SOLIDS AND LIQUIDS	C. D. Jeffries & E. F. Hollenauer	12/8/70
3,546,577	740,207(60)	APPARATUS FOR NONDESTRUCTIVELY MEASURING THE POSITION AND PARTICLE-DENSITY PROFILE OF AN ACCELERATOR BEAM	F. Hormstra, Jr. & W. H. DeLuca	12/8/70
3,546,583	758,561(60)	ELECTRODE ASSEMBLY FOR DETECTING PARTICLES IN FLUID SUSPENSION	J. D. Perrings	12/8/70
3,546,996	814,967(60)	RELEASE LATCH ACTUATED BY TEMPERATURE EXCURSION	R. J. Grijalva & G. F. Queener	12/15/70

3,547,185	826,102(60)	METHOD FOR PROMOTING DROPWISE CONDENSATION ON COPPER AND COPPER ALLOY CONDENSING SURFACES	D. M. Eissenberg	12/15/70
3,547,547	806,920(60)	ANALYTICAL PHOTOMETER WITH MEANS FOR MEASURING, HOLDING AND TRANSFERRING DISCRETE LIQUID VOLUMES AND METHOD OF USE THEREOF	N. G. Anderson	12/15/70
3,547,676	529,181(60)	PYROLYTIC CARBON STRUCTURES AND PROCESS FOR MAKING SAME	J. C. Bokros, J. Chin and R. J. Price	12/15/70
3,547,685	754,308(60)	METHOD OF INHIBITING THE CORROSION OF TANTALUM BY LIQUID LITHIUM	J. Y. N. Wang and K. G. Figlik	12/15/70
3,547,709	728,910(60)	CORROSION-RESISTANT URANIUM	G. S. Petit and R. R. Wright	12/15/70
3,547,796	786,711(60)	APPARATUS FOR ELECTRO-POLISHING SPHERICAL SURFACES	W. L. Randall	12/15/70
3,548,191	807,081(60)	PLASTIC TRACT-TYPE DETECTOR FOR SLOW NEUTRONS HAVING THE NEUTRONS COVERSION SUBSTANCE UNIFORMLY DISPERSED THEREIN	W. W. Schultz S. L. Jones	12/15/70
3,548,352	847,869(60)	ACTUATING DEVICE	C. A. Sandoval	12/15/70
3,548,646	803,154(60)	TENSILE TEST APPARATUS	W. R. Holman	12/22/70
3,548,931	771,796(60)	VESSEL FOR A SODIUM-COOLED REACTOR	J. H. Germer & C. E. Boardman	12/22/70
3,549,257	787,525(60)	OPTICAL EXTENSOMETER	I. Murray	12/22/70
3,549,323	721,676(60)	DUAL TEMPERATURE ISOTOPE EXCHANGE PROCESS	D. F. Babcock	12/22/70
3,549,324	721,674 (60)	DUAL TEMPERATURE ISOTOPE EXCHANGE PROCESS	D. F. Babcock	12/22/70
3,549,325	721,675(60)	DUAL TEMPERATURE ISOTOPE EXCHANGE PROCESS	D. F. Babcock	12/22/70
3,549,489	769,655(60)	SYSTEM FOR DETECTING SODIUM BOILING IN A REACTOR	P. R. Pluta	12/22/70
3,549,491	777,793(60)	NUCLEAR REACTOR FUEL ELEMENT HOLD-DOWN AND TIGHTING MECHANISM	M. L. Johnson	12/22/70
3,549,492	823,888(60)	FLUID SUPPORTED CAPSULE HOLDER FOR HOMOGENEOUSLY IRRADIATING SAMPLES	E. Ricci T. H. Handley & H. G. Willey	12/22/70
3,549,493	793,040(60)	FAST SODIUM-COOLED REACTOR CORE STRUCTURE	J. H. Germer	12/22/70
3,549,494	751,246(60)	FLOW MEASURING DEVICE FOR SODIUM-COOLED REACTORS	J. H. Germer	12/22/70
3,549,877	629,877(60)	A SYSTEM FOR COMPUTING AND CONTINUOUSLY DISPLAYING INCREMENTS OF MOVEMENT OF AN OBJECT IN USEABLE UNITS OF MEASURE	C. H. Lay	12/22/70
3,550,064	847,870(60)	ELECTRICAL CONNECTOR PLUG AND CONNECTOR ASSEMBLY	J. M. Caller & P. J. Konnick	12/22/70
3,551,119	692,727(35)	A PRECIPITATION METHOD OF RECOVERING ELEMENT 95 FROM CONTAMINANTS	Louis B. Werner	12/29/70

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,554,374	741,959	PLUGGING COMPOUND COLLECTOR	R. C. Blair	1/12/71
3,554,630	758,940	ALIGNMENT TELESCOPE	B. T. Rogers, Jr.	1/12/71
3,554,693	789,619	SEPARATION OF SCANDIUM FROM RARE EARTH ELEMENTS	A. Orlandini J. Korkisch	1/12/71
3,554,709	737,356	SELECTIVE ION-EXCHANGE SEPARATION OF ALKALI-METALS	A. Orlandini J. Korkisch	1/12/71
3,554,783	773,351	LOW TEMPERATURE METHOD FOR COATING NUCLEAR FUELS WITH MULTIPLE CARBON COATINGS	H. Beutler	1/12/71
3,554,807	577,449	THERMOELECTRIC ELEMENTS COMPRISING BISMUTH-BISMUTH BROMIDE OR BISMUTH-BISMUTH CHLORIDE	J. D. Kellner	1/12/71
3,554,867	692,729	METHOD OF OBTAINING AMERICIUM	G. Thompson	1/12/71
3,554,920	722,711	ENERGY INDEPENDENT RADIOPHOTOLUMINESCENCE DOSIMETER WITH GOOD FADING STABILITY	K. H. Becker	1/12/71
3,555,278	784,720	POTENTIAL ALPHA RAY ACTIVITY METER	G. L. Schroeder	1/12/71
3,555,284	784,739	MULTISTATION, SINGLE CHANNEL ANALYTICAL PHOTOMETER AND METHOD OF USE	H. G. Anderson	1/12/71
3,555,411	799,166	COLD CATHODE MAGNETRON IONIZATION GAUGE WITH CATHODES FORMING POLE PIECES FOR CYLINDRICAL MAGNET	R. O. Woods	1/12/71
3,555,434	733,845	SYSTEM FOR THE SUPPRESSION OF TRANSIENT NOISE PULSES	E. M. Sheen	1/12/71
3,556,486	797,612	COMBINATION LINEAR LIFTING AND TRANSLATION MECHANISM	V. J. Rutkauskas	1/19/71
3,556,963	743,309	ELECTROCHEMICAL PROCESS FOR CUTTING BERYLLIUM	W. B. Distler J. Wiesner	1/19/71
3,556,967	756,264	ELECTROPHORETIC SEPARATION UTILIZING LIQUID CENTRIFUGE	H. G. Anderson	1/19/71
3,558,122	827,842	A LIQUID METAL PURIFIER	A. Jaross	1/26/71
3,558,344	722,537	CARBONACEOUS COATING FOR CARBON FOAM	G. R. Peterson C. E. Stooksbury	1/26/71
3,558,750	703,573	METHOD OF MAKING NUCLEAR FUEL BODIES	E. E. Davis D. W. Stevens G. R. Tully	1/26/71
3,558,862	816,235(60)	CIRCUIT FOR DIMENSIONAL VERIFICATION OF PUNCHED TAPES	D. E. McMillan	1/26/71
3,558,865	628,244	WEAPONS EFFECT DISPLAY SYSTEM	W. Berndt F. Rieneker, Jr. W. G. Downing	1/26/71
3,558,879	712,568	ELECTROSTATIC DEFLECTOR FOR SELECTIVELY AND ADJUSTABLY BENDING A CHARGED PARTICLE BEAM	J. D. Larson J. A. Benjamin	1/26/71
3,558,880	751,099	APPARATUS FOR DISPLAYING THE IMAGE ELECTRON SIGNAL FROM A SCANNING ELECTRON MICROPROBE	H. Knisseley V. Zuuk	1/26/71
3,558,919	741,762	AVALANCHE-TRANSISTOR PULSE-TRAIN GENERATOR	L. B. Olk	1/26/17
3,558,935	775,250	GASEOUS-FUELED NUCLEAR REACTORS FOR ELECTRICAL POWER PRODUCTION	E. C. Gritton B. Pinkel	1/26/71
3,559,409	836,087	METHOD FOR CONSTRUCTING A LINED UNDERGROUND CAVITY BY UNDERREAMING, GROUTING, AND BORING THROUGH THE GROUTING	W. H. Johnson	2/2/71

3,562,480	844,821	THERMOLUMINESCENT DOSIMETER BADGE	A. Korba	2/9/71
3,562,634	784,072	METHOD FOR DETERMINING THE STATE OF CHARGE OF NICKEL CADMIUM BATTERIES BY MEASURING THE FARAD CAPACITANCE THEREOF	N. Latner	2/9/71
3,562,752	382,505	DISTANCE INDICATING SYSTEM	C. W. Roeschke	2/9/71
3,564,218	722,046	BIDIRECTIONAL COUNTING SYSTEM	C. M. Lay	2/16/71
3,564,246	477,627	GAMMA COMPENSATED FISSION THERMOCOUPLE	R. C. Morrison	2/16/71
3,565,258	603,221	PARALLEL FLOW HEMODIALYZER	A. R. Lavender F. W. Markley	2/23/71
3,565,591	811,319	TITANIUM-ZIRCONIUM-GERMANIUM BRAZING ALLOY	D. A. Canonico H. C. Cole C. W. Houck	2/23/71
3,566,071	586,613	METHOD OF METALS JOINING	R. L. Marchett G. Burton, Jr. J. F. Smith W. L. Frankhouser	2/23/71
3,566,185	805,649	SPUTTER-TYPE PENNING DISCHARGE FOR METALLIC IONS	B. F. Gavin	2/23/71
3,566,406	325,032	RADIO ALTIMETER	L. J. Kabell C. W. Roeschke	2/23/71
3,566,677	836,729	METHOD AND APPARATUS FOR MONITORING CONTENT OF FLOWING STREAMS	B. T. Cole R. H. Stevens	3/2/71
3,566,695	831,476	LIQUID METAL PRESSURE GAGE	C. A. Guderjahn	3/2/71
3,566,904	816,236	LIQUID FLOW CONTROL SYSTEM	H. S. Davis	3/2/71
3,567,192	736,723	VESSEL PACKING ARTICLE	F. Kerze, Jr.	3/2/71
3,567,496	751,338	METHOD OF PRODUCING PLASTIC IMPREGNATED CONCRETE	M. Steinberg P. Colombo L. E. Kukacka B. Manowitz	3/2/71
3,567,646	362,556	STABLE CESIUM COMPOUNDS	J. H. Gray, III	3/2/71
3,567,648	814,313	DISSOLUTION OF STAINLESS STEEL CLAD NUCLEAR FUEL ELEMENTS	W. J. Walsh R. D. Pierce	3/2/71
3,567,662	677,002	LOW TEMPERATURE METHOD FOR PREPARING FOAM PRODUCT	C. R. Schmitt	3/2/71
3,567,881	883,736	ROLLER-BAND INERTIAL SWITCH	F. A. Duinstra D. O. Schuler	3/2/71
3,567,896	860,879	METHOD AND APPARATUS FOR HOT PRESSING	J. Y. Chang	3/2/71
3,567,925	748,067	CHARGED PARTICLE DETECTOR	M. L. Muga H. E. Taylor	3/2/71
3,567,971	763,258	TIME-SAMPLING PULSE-AMPLIFIER	W. W. Goldsworthy	3/2/71
3,568,002	776,658	MULTI-ACTION FLUX PUMP	K. Robins R. B. Britton	3/2/71
3,568,397	837,071	METHOD FOR ENCAPSULATING RING-SHAPED OBJECTS	V. C. Hammond	3/9/71
3,568,449	863,167	CONSTRUCTION OF LAND MASS BOUNDED BY WATER	M. A. Lokas	3/9/71
3,568,640	842,851	WIRE COATING TOOL	H. Kuettner	3/9/71
3,568,766	806,169	CORRUGATED HEAT EXCHANGE MEMBER FOR EVAPORATION AND CONDENSATION	D. G. Thomas	3/9/71
3,568,946	811,026	APPARATUS FOR ELIMINATING LINE TWIST	J. I. Anderson D. Parker	3/9/71
3,569,615	750,789	METHOD AND APPARATUS FOR TRANSMITTING VIDEO INFORMATION WITH AMPLITUDE REPRESENTATION OF POSITION INFORMATION	P. E. R. Oberbeck W. J. Poppelbaum	3/9/71

3,569,697	798,284	THERMOLUMINESCENT DOSIMETER FOR PROVIDING A TOTAL RADIATION MEASURE OF RADIOACTIVITY IN A FLUID MEDIUM TO WHICH THE DOSIMETER IS EXPOSED	D. E. McCurdy	3/9/71
3,569,701	805,262	PREREGULATION OF HIGH VOLTAGE SUPPLY CIRCUIT FOR A MEDICAL NUCLEAR SPECTROMETER	M. M. Satterfield G. R. Dyer	3/9/71
3,569,704	752,940	RADIATION DOSIMETER	J. P. Mitchell	~~6/15/60~~ 3/9/71
3,569,705	846,788	METHOD FOR PRODUCING POLARIZED ATOMS	M. S. Kaminsky	3/9/71
3,569,714	876,932	PROTECTED RADIOISOTOPIC HEAT SOURCE	C. G. Anderson V. L. Avona D. P. Kelly	3/9/71
3,569,715	757,657	ELECTRO-OPTICAL TELEMETRY SYSTEM RECEIVER UTILIZING NEGATIVE FEEDBACK TO ELIMINATE ATMOSPHERICALLY-INDUCED LOW FREQUENCY LIGHT BEAM INTENSITY VARIATIONS	R. R. Horning	3/9/71
3,569,784	777,759	SOLID STATE CIRCUIT	D. G. Carroll J. E. Henick	3/9/71
3,569,791	868,441	REMANENT-FREE PULSING MAGNETS	U. Vogel	3/9/71
3,569,822	815,429	ANTIFERROELECTRIC VOLTAGE REGULATION	F. W. Neilson O. M. Stuetzer	3/9/71
3,569,993	755,194	LOW ENERGY RADIATION DOSIMETER IN THE RANGE OF 15 KeV AND BELOW	B. J. Mallon L. E. Lorensen	3/9/71
3,570,106	812,435	METHOD FOR PRODUCING SEAMLESS REFRACTORY METAL TUBING	J. A. McCurty C. O. Tarr	3/16/71
3,570,530	875,885	PRESSURE REGULATOR FOR A CIRCULATING FLUID SYSTEM	F. Fuis, Jr.	3/16/71
3,571,576	766,434	COMPRESSION OF STATISTICAL DATA FOR COMPUTER TAPE STORAGE	H. M. Satterfield	3/16/71
3,571,595	816,237	VARIABLE RATE NEUTRON SOURCE	G. L. Silver	3/23/71
3,571,850	816,362	HOT-ISOSTATIC-PRESSING APPARATUS	H. A. Pohto C. D. St. Onge	3/23/71
3,571,922	743,701	METHOD OF FABRICATING A STRAINED SUPER-CONDUCTOR MAGNET	D. G. Schweitzer L. J. Nicolosi	3/23/71
3,572,141	840,566	ROLLER-BAND DEVICES	D. F. Wilkes	3/23/71
3,572,403	735,119	APPARATUS FOR BLENDING PARTICLES	P. T. Matteon, Jr. D. W. Stevens	3/23/71
3,572,890	776,736	MICROSCOPE SLIDE AND SPINNER	E. R. Adamik	3/30/71
3,572,937	773,113	A METHOD AND APPARATUS FOR INTERFEROMETRIC MEASUREMENT OF MACHINE SLIDE ROLL	R. R. Baldwin	3/30/71
3,573,036	594,636	METHOD FOR PRODUCING STOICHIOMETRIC URANIUM DIOXIDE COMPOSITIONS	H. P. Fairbanks J. A. McCurty	3/30/71
3,573,086	782,714	FIBROUS CARBON OR GRAPHITE PRODUCTS AND METHOD OF MAKING SAME	F. Lamb&in, Jr.	3/30/71
3,573,109	819,527	PRODUCTION OF METAL RESISTANT TO NEUTRON IRRADIATION	I. S. Levy	3/30/71
3,573,120	757,977	URANIUM ETCHANT AND METHOD	F. B. Waldrop M. J. Bezik	3/30/71
3,573,165	805,560	PRODUCTION OF HIGH PURITY NICKEL-66	J. J. Pinajian	3/30/71

3,573,166	747,161	HYDRAULIC CONTROL ROD DRIVE SYSTEM	J. H. Germer	3/30/71
3,573,167	734,961	KINETIC INTENSE NEUTRON GENERATOR REACTOR	L. D. Percival King	3/30/71
3,573,424	844,115	METHOD FOR REMOVAL OF THE POROUS PORTION OF A BUTT WELD	P. H. Macherey	4/6/71
3,573,458	811,027	POSITRON CAMERA WITH MULTIPLANE FOCUSING	H. Anger	4/6/71
3,573,462	796,352	SEALED CONTAINER WITH PRESSURE RELIEF FOR HAZARDOUS MATERIAL	C. A. Wilkins F. D. R. King	4/6/71
3,573,615	668,303	SYSTEM FOR MEASURING A PULSE CHARGE	D. I. Porat R. L. Anderson	4/6/71
3,573,639	882,247	RATEMETER WITH AUTOMATIC DEAD-TIME CORRECTION	A. J. Metz R. H. Howard	4/6/71
3,574,103	757,978	LAMINATED CELLULAR MATERIAL FORM	A. Latkin	4/6/71
3,574,531	825,073	STRONTIUM EXTRACTION PROCESS	W. W. Schulz	4/13/71
3,574,532	809,032	WASH TREATMENT TO RESTORE THE DEGRADED DZEHPA-TBP USED IN FISSION PRODUCT EXTRACTIONS	W. W. Schulz S. J. Beard	4/13/71
3,574,533	824,207	METHOD OF PREPARING BERYLLIUM NITRATE SOLUTIONS	P. T. Godesiabois	4/13/71
3,574,548	849,204	PROCESS FOR MANUFACTURING A CELLULAR CARBON BODY	A. E. Sands H. E. Scrivner	4/13/71
3,574,558	822,212	JET-MIXED LIQUID EXTRACTION COLUMN	T. Vermeulen D. R. Kahn	4/13/71
3,574,580	774,274	PROCESS FOR PRODUCING SINTERED DIAMOND COMPACT AND PRODUCTS	H. D. Stromberg D. R. Stephens	4/13/71
3,574,612	796,176	NICKEL-CHROMIUM ALLOY	R. F. Maness	4/13/71
3,574,654	744,319	METHOD OF PRODUCING SPEROIDAL AGGLOMERATES	R. E. Cowan E. P. Ehart	4/13/71
3,575,049	1,482	SONIC FLOW METER	T. J. Boland	4/13/71
3,575,803	751,100	REACTOR FUELING METHOD	P. Greebler	4/20/71
3,575,804	747,160	ELECTROMAGNETIC FLUID VALVE	C. C. Ripley	4/20/71
3,575,805	784,679	NUCLEAR REACTOR CONTROL ROD DRIVE ASSEMBLY	J. Dempsey	4/26/71
3,575,808	809,324	FUEL SUBASSEMBLY FOR A LIQUID-METAL-COOLED, FAST BREEDER REACTOR	M. T. Jakub G. H. Hesson A. J. Anthony	4/20/71
3,575,841	762,460	SYSTEM FOR REMOVING PARTICLES FROM A FLUID BY MEANS OF AN ELECTRIC FIELD	C. A. Harris	4/20/71
3,575,874	820,195	NUCLEAR FUEL CONTAINING PLUTONIUM BOROCARBIDES	D. B. Sullenger	4/20/71
3,575,875	821,098	METHOD FOR PREPARING URANIUM-CONTAINING AQUASOLS EMPLOYING A PLATINUM OXIDE CATALYST	W. L. Pattison J. P. McBride	4/20/71
3,576,050	761,472	APPARATUS FOR MAKING PRESSED POWDER SLEEVES	C. R. Thomas	4/27/71
3,576,210	884,852	HEAT PIPE	D. S. Trent	4/27/71
3,576,441	20,288	ANALYTICAL PHOTOMETER-TO-DIGITAL COMPUTER INTERFACING SYSTEM FOR REAL TIME DATA REDUCTION	R. K. Adams J. T. Hutton	4/27/71
3,576,622	732,962	NICKEL-BASE ALLOY	H. E. McCoy, Jr.	4/27/71
3,576,925	726,243	METHOD OF PREPARING FUEL PLATES FOR NUCLEAR REACTOR	J. H. Handwerk J. T. Dusek G. D. White	4/27/71
Re. 27,025	846,985	PROCESS OF CONDITIONING PARTICULATE MATERIALS WITH AN ORGANO SILICON COATING FOR USE IN ORGANIC EXPLOSIVES	L. McDonald	1/12/71

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PATENT NO.	SER. NO.	INVENTION	INVENTORS	DATE
3,566,661	748,444	METAL FORMING	G. P. McCafferty F. Rudolph, Jr. H. P. Shane	3/2/71
3,576,994	841,573	NEUTRON RADIOGRAPHY OF DEUTERATED TISSUE	P. B. Parks M. Brown	5/4/71
3,577,026	836,088	METHOD FOR PRODUCING IONS UTILIZING A CHARGE-TRANSFER COLLISION	W. Haeberli	5/4/71
3,577,199	852,360	MEASURING IRRADIATION-INDUCED DEFORMATIONS OF MATERIALS	W. W. Schultz	5/4/71
3,577,225	824,944	METHOD FOR SEPARATING URANIUM, PROTACTINIUM, AND RARE EARTH FISSION PRODUCTS FROM SPENT MOLTEN FLUORIDE SALT REACTOR FUELS	J. H. Shaffer D. M. Moulton W. R. Grimes	5/4/71
3,577,283	805,384	METHOD OF CASE HARDENING VANADIUM AND VANADIUM ALLOYS	R. M. Mayfield J. A. Zic G. F. Hill	5/4/71
3,577,317	820,750	CONTROLLED FUSION REACTOR	C. H. Woods	5/4/71
3,577,339	7,387	FILTRATION METHOD OF SEPARATING LIQUIDS FROM EXTRANEOUS MATERIALS	J. N. Baird, Jr. J. S. Johnson K. A. Kraus J. J. Perona	5/4/71
3,577,344	794,980	FIBROUS THERMAL INSULATION AND METHOD OF MAKING SAME	Z. L. Ardary A. W. Maxey C. D. Reynolds	5/4/71
3,577,485	796,175	METHOD FOR PREPARATION OF CARBONITRIDE NUCLEAR FUEL MATERIALS	R. L. Beatty J. M. Leitnaker K. J. Notz, Jr.	5/4/71
3,577,774	801,389	AN ELECTROSTATIC ULTRASONIC NON-DESTRUCTIVE TESTING DEVICE	R. W. Steffens M. F. Zeutschel	5/4/71
3,578,442	768,225	MEANS FOR VENTING HELIUM FROM A RADIOISOTOPE CONTAINER	C. G. Anderson	5/11/71
3,580,705	764,494	SELECTIVE STRIPPING OF PLUTONIUM FROM ORGANIC EXTRACTS	C. F. Coleman B. S. Weaver	5/25/71
3,580,802	818,374	DEVICE FOR DETERMINING THE SHAPE OF MAGNETIC SURFACES IN TOROIDAL CONFIGURATIONS CONTAINING PLASMA	J. L. Johnson N. K. Winsor J. M. Dawson R. M. Sinclair J. C. Hosen	5/25/71
3,580,804	805,156	LIFTING MECHANISM AND REFUELING MACHINE	J. A. Jaget	5/25/71
3,580,822	839,510	METHOD FOR PRODUCING A RADIATION RESISTANT MANGANESE ACTIVATED ALUMINUM OXIDE SCINTILLATOR	R. W. Allison, Jr. R. W. Brokloff J. R. Woodyard	5/25/71
3,581,577	803,155	ACCELERATION SENSITIVE ACTUATOR	G. A. Ray, Jr. J. H. Von Dreele	6/1/71
3,582,218	867,340	MULTISTATION PHOTOMETRIC ANALYZER	H. G. Anderson	6/1/71
3,582,652	2,346	METHOD FOR READING A THERMOLUMINESCENT DOSIMETER	R. C. McCall	6/1/71
3,582,817	823,887	LASER EXCITATION APPARATUS	V. A. Gibson	6/1/71
3,582,849	881,787	ELECTROMAGNETIC APPARATUS FOR PRODUCING AND CONTAINING HIGH TEMPERATURE PLASMAS	R. F. Post R. W. Moir	6/1/71
3,583,161	569,282	RADIOISOTOPE/ELECTRO-THERMAL THRUSTER	R. Sloan	6/8/71
3,583,361	886,168	ION BEAM DEPOSITION SYSTEM	A. Laudel, Jr.	6/8/71

3,584,241	836,361	SCHMITT TRIGGER WITH CONTROLLED HYSTERESIS	M. Nakumura	6/8/71
3,584,297	820,194	IMPEDANCE MEASURING DEVICE	O. H. Koshi	6/8/71
3,584,308	832,249	BIDIRECTIONAL LOGIC CIRCUITS EMPLOYING DUAL STANDARD ARRAYS OF BISTABLE MULTIVIBRATORS	F. D. Neu	6/8/71
3,586,484	827,185	MULTISTATION ANALYTICAL PHOTOMETER AND METHOD OF USE	N. G. Anderson	6/22/71
3,586,603	766,431	NUCLEAR FUEL ROD HAVING AN OFFSET PLENUM	D. P. Hines	6/22/71
3,586,641	843,224	ENHANCEMENT OF SUPER-CONDUCTIVITY OF LANTHANUM AND YTTRIUM SESQUICARBIDE	M. C. Krupka A. L. Giorgi N. H. Krikorian E. G. Szklarz	6/22/71
3,586,757	850,151	FLEXIBLE STRIPLINE TRANSMISSION LINE	M. Haldeman, Jr.	6/22/71
3,587,301	785,173	HOLOGRAPHIC INTER-FEROMETER FOR ISOTACHIC STRESS ANALYSIS	H. H. M. Chau	6/28/71
3,587,33	1,675	GLOVE BOX TURNTABLE CAM ROTATING MECHANISM	R. D. Duncan	6/28/71
3,587,613	843,110	ELECTRO-FLUID VALVE HAVING STRIP ELECTRODES	J. W. Mark H. H. Barney	6/28/71
3,587,632	863,759	OVERPRESSURE RELIEF VALVE HAVING A FAIL-SAFE RELEASABLE VALVE STEM GUIDE	H. S. Clay	6/28/71
3,588,505	837,460	METHOD AND APPARATUS FOR MEASURING FAST NEUTRON FLUENCES WITH CADMIUM SULFIDE OR CADMIUM SELENIDE	R. T. Johnson, Jr.	6/28/71
3,588,593	811,028	METHOD OF OPERATING AN ION-GETTER VACUUM PUMP WITH GUM AND GRID STRUCTURE ARRANGED FOR OPTIMUM IONIZATION AND SUBLIMATION	M. Rabinowitz E. L. Garwin	6/28/71
3,588,692	799,167	CIRCUIT FOR DEVELOPING A PULSE HAVING AN AMPLITUDE DETERMINED BY THE CAPACITANCE FOR CAPACITOR COUPLED THERETO	O. H. Koski	6/28/71
3,588,729	834,429	NONBLOCKING PREAMPLIFER	M. M. Satterfield	6/28/71
3,590,250	830,970	VALVE AND PULSE WIDTH MODULATED DATA-LINK USING INFRARED LIGHT TO CONTROL AND MONITOR POWER SUPPLY FOR MODULATOR FOR HIGH ENERGY LINEAR ACCELERATOR	R. L. Witkover	6/29/71
3,590,286	784,988	THERMIONIC CONVERTER CELLS FOR NUCLEAR REACTOR	R. A. Becker P. R. Hill R. R. Hobson	6/29/71
3,591,474	841,347	SUPERCONDUCTING CYLINDERS FOR FLUX DETECTORS	J. M. Godking D. L. Stolfa	7/6/71
3,591,806	20,287	MULTI-CRYSTAL TOMOGRAPHIC SCANNER FOR MAPPING THIN CROSS-SECTION OF RADIOACTIVITY IN AN ORGAN OF THE HUMAN BODY	A. B. Brill J. A. Patton J. J. Erickson P. H. King	7/6/71
3,591,807	577,441	PHOTON DETECTOR UTILIZING A WELL-TYPE SCINTILLATION CRYSTAL	C. W. Mays R. D. Lloyd D. R. Atherton	7/6/71
3,592,053	837,459	METHOD OF DETECTING INHOMOGENEITIES IN CERAMICS	A. W. Nutt, Jr. J. H. Handwerk	7/13/71
3,593,110	858,828	DIRECT-CURRENT GENERATOR FOR SUPERCONDUCTING CIRCUITS	R. P. Huebener	7/13/71
3,593,058	20,289	CROSSED-FIELD ELECTRON INJECTOR FOR AN ELECTRON ACCELERATOR	H. A. Hogg	7/13/71
3,595,629	850,150	PLUTONIUM AND NEPTUNIUM EXTRACTION PROCESS	W. W. Schulz	7/27/71

3,596,506	810,282	TOOL FORCE MONITOR	A. R. Wilson, Jr.	8/3/71
3,596,853	851,152	SPACE HEAT SOURCE	C. G. Anderson	8/3/71
3,597,192	781,583	PREPARATION OF TANTALUM METAL	H. A. Whilhelm F. A. Schmidt R. H. Bergman	8/3/71
3,597,344	728,333	TREATMENT OF TALL OIL	F. N. Case	8/3/71
3,597,596	797,509	RADIOCHEMICAL COUNTER FOR BULK MATERIALS	J. L. Lawless O. H. Willoughby	8/3/71
3,597,612	793,944	POWER PULSE MONITORING PROBE	L. R. Boyd	8/3/71
3,597,613	851,174	METHOD OF MEASURING BORON CONCENTRATION IN WATER BY NEUTRON ABSORPTION	V. Rajagopal	8/3/71
3,597,659	860,526	MOUNT FOR ELECTRONIC CIRCUITS AND THE LIKE AND METHOD FOR MAKING SAME	C. K. Hoffman J. A. Laster G. R. Urish	8/3/71
3,597,695	827,255	SINGLE CAVITY REGENERATIVE LASER PULSE AMPLIFIER	J. E. Swain L. L. Steinmetz F. Rainer	8/3/71
3,597,849	849,420	PERIPHERAL SCANNING SYSTEM	A. E. Gaal	8/10/71
3,597,939	836,360	CONTROL ASSEMBLY FOR A NUCLEAR REACTOR INCLUDING AN OFFSET COUPLING	C. C. Ripley F. L. Suckow	8/10/71
3,598,032	876,933	PRODUCING STEREOPHOTOGRAPHS WITH A CLOSED CIRCUIT TELEVISION SYSTEM	S. W. Zohn V. J. Dimond	8/10/71
3,598,968	795,808	CODED ARRANGEMENT OF INDUCTIVELY DETECTABLE ELECTRICAL CONDUCTING SEGMENTS	R. A. Victor	8/10/71
3,598,975	829,913	TIME PROPORTIONING PROCESS INTERFACE FOR DIRECT COMPUTER CONTROL	W. R. Miller C. A. Mossman	8/10/71
3,599,120	864,480	DOUBLE HELIX MICROWAVE STRUCTURE FOR COUPLING A MICROWAVE MAGNETIC FIELD FROM A FIRST TO A SECOND REGION	R. M. Thibault D. W. Schutt	8/10/71
3,599,319	715,124	METHOD AND APPARATUS FOR PRODUCING FINE GRAINED THERMOELECTRIC MATERIAL	M. Weinstein N. Hemmat	8/17/71
3,600,011	859,469	JOINT UTILIZING WEDGESHAPED RECTANGULAR LOCKING SHAFTS	R. L. Alvis	8/17/71
3,600,091	36,723	BRIGHT LINE EMISSION SOURCE FOR ABSORPTION SPECTROSCOPY	J. A. Golab J. P. Bobis F. R. George	8/17/71
3,600,155	858,338	SODIUM PURIFICATION PROCESS	P. F. DeVries J. M. Scarborough	8/17/71
3,600,157	822,695	RARE EARTH ADDITIONS TO URANIUM AND URANIUM ALLOYS	G. E. Jaynes	8/17/71
3,600,277	764,477	REFUELING APPARATUS AND METHOD FOR FAST REACTORS	J. H. Germer	8/17/71
3,600,281	834,427	MICROSTABILIZED SUPER-CONDUCTOR	W. H. Bergmann	8/17/71
3,600,291	794,761	METHOD OF PRODUCING DENSE CARBON FROM ANTHRACENE	R. H. Wiley	8/17/71
3,600,323	864,154	METHOD FOR PREPARING STABLE URANIA-PLUTONIA SOLS	O. K. Tallent	8/17/71
3,600,578	864,443	REACTOR POWER LEVEL SENSING DEVICE USING CHERENKOV RADIATION	K. G. Porges R. Gold	8/17/71
3,600,580	859,783	CHARGED PARTICLE BEAM DENSITY MEASUREMENT DEVICE	U. Vogel	8/17/71
3,600,585	616,422	PLUTONIUM HEAT SOURCE	D. P. Kelly J. A. Powers P. A. Tucker	8/17/71
3,600,934	887,695	EDDY CURRENT SYSTEM FOR VIBRATION TESTING OF CANTILEVERED NONFERROUS ARTICLES	D. E. Hendrix H. A. Kermisle	8/24/71
3,601,612	852,273	WIRE SPARK CHAMBER WITH MAGNETOSTRICTIVE READOUT	V. Perez-Mendez	8/24/71

3,601,656	51,239	SILICON DIODE PROTECTION MEANS	B. H. Smith L. L. Reginato	8/24/71
3,602,685	561,252	METHOD OF ELECTRON BEAM WELDING	F. R. Itoh	8/31/71
3,602,713	53,057	PASSIVE MOISTURE METER	J. Kastner B. G. Oltman Y. Foige	8/31/71
3,602,742	838,948	CIRCUIT FOR GENERATING A PULSE IN RESPONSE TO A RADIATION BURST	R. G. Huss	8/31/71
3,602,763	871,889	CATHODE FOR DUOPLASMATRON-TYPE ION SOURCE	R. R. Hall	8/31/71
3,439,356	463,772	PRESSURE-TEMPERATURE SENSOR	J. E. Kinzer	6/15/71

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December 28, 1971

PATENT NO.	SERIAL NO.	INVENTION	INVENTORS	DATE
3,603,096	883,703(60)	APPARATUS FOR INSTALLING A REINFORCED VESSEL IN AN UNDERGROUND CAVITY	W. M. Wells Livermore, Calif.	9/7/71
3,603,107	32,670(70)	TEMPERATURE CONTROL SYSTEM	A. J. Elliott M. O. Jones Livermore, Calif.	9/7/71
3,603,139	728,686(60)	PULSED ACOUSTIC IMAGE CONVERTER	Shuh-pan Ying Ann Arbor, Mich.	9/7/71
3,603,415	751,454(60)	THULIUM OXIDE HEAT SOURCE AND METHOD FOR FORMING SAME	C. H. Allen C. E. Leach Pasco, Wash.	9/7/71
3,603,796	793,384(60)	SEGMENTED GAMMA RAY DETECTOR AMPLIFIER	R. L. Chase Blue Point, N.Y.	9/7/71
3,603,797	18,125(70)	TWO-DIMENSIONAL POSITION-SENSITIVE RADIATION DETECTOR	C. J. Borkowski M. K. Kopp Oak Ridge, Tenn.	9/7/71
3,603,813	881,811(60)	FIELD EFFECT TRANSISTOR AS A BUFFER FOR A SMALL SIGNAL CIRCUIT	J. N. Hall Palo Alto, Calif.	9/7/71
3,603,887	10,969(70)	HIGH VOLTAGE REGENERATIVE PULSE MODULATOR	J. D. Doss D. C. Hagerman Los Alamos, N. Mex.	9/7/71
3,603,980	865,297(60)	DIGITALLY CONTROLLED RAMP GENERATOR	W. J. Poppelbaum Urbana, Ill. D. C. Rollenhagen Syracuse, N.Y.	9/7/71
3,604,251	817,505(60)	CAPACITIVE ULTRASONIC DEVICE FOR NONDESTRUCTIVELY TESTING A SAMPLE	N. E. Dixon Pasco, Wash.	9/14/71
3,604,931	883,737(60)	NEUTRON DOSIMETER INCLUDING A STEP WEDGE FORMED OF AN ALPHA-ATTENUATING MATERIAL	J. Kastner B. G. Oltman Ill.	9/14/71

3,605,486	4,664(70)	METHOD AND APPARATUS FOR MEASURING ADHESION OF MATERIAL BONDS	N. C. Anderholm 9/20/71 A. Goodman Albuquerque, N. Mex.	3,607,672	8,695(70)	METHOD FOR PRODUCING FIBROUS CARBON STRUCTURES	C. R. Schmitt 9/21/71 Oak Ridge, Tenn.
3,605,777	36,035(70)	CLOSURE MECHANISM	G. G. Curry 9/20/71 J. C. Dresser Albuquerque N. Mex. J. A. Moeller Phoenix, Ariz.	3,607,988	764,211(60)	STEREOISOMERIC WINDOWS OF POLYMER COMPLEX FOR IMPROVED RESISTANCE TO RADIATION DAMAGE	G. A. Henry 9/21/71 West Indies D. G. Gardner Livermore, Calif.
3,607,010	812,515(60)	CHEMICAL EXCHANGE METHOD OF CONCENTRATING CARBON ISOTOPES	L. L. Brown 9/21/71 Oak Ridge, Tenn.	3,608,023	855,230(60)	ENCAPSULATING METHOD	D. D. Scarborough 9/21/71 Redington Shores, Fla.
3,607,056	864,557(60)	PREPARATION OF A SUPERCONDUCTING SCANDIUM-CARBON PHASE	A. L. Giorgi 9/21/71 N. H. Krikorian E. G. Szklarz M. C. Krupka	3,609,093	758,959(60)	PHOTOCHROMIC RADIATION DOSIMETER	L. A. Harrah 9/28/71 Albuquerque, N. Mex.
3,607,145	789,359(60)	PLUTONIUM SEPARATION FROM URANIUM	D. A. Wenz 9/21/71 Downers Grove, ILL.	3,609,351	838,433(60)	TRAVELING WAVE PARTICLE SEPARATOR INCLUDING A RECTANGULAR WAVE GUIDE LINED WITH A DIELECTRIC MATERIAL	J. W. Dawson 9/28/71 Clarendon Hills, Ill. R. L. Kustom Oak Lawn, Ill.
3,607,146	4,022(70)	PREPARATION OF CHEMICALLY REACTIVE URANIUM TRIOXIDE	R. K. Ballard 9/21/71 Salt Lake City, Utah	3,609,978	1,088(70)	METHOD OF REMOTELY CONSTRUCTING A ROOM	J. D. Michie 10/5/71 R. C. DeHart San Antonio, Tex.
3,607,249	4,375(70)	COBALT-IRON-TANTALUM HIGH-TEMPERATURE-STRENGTH ALLOY	F. C. Robertshaw 9/21/71 J. L. Bartos Ohio J. P. Hammond 9/21/71 Knoxville, Tenn.	3,610,752	3,152(70)	PREPARING PRINTED CIRCUIT BOARDS BY REFECTED RAYS	F. C. Wilson 10/5/71 Queens Village, N.Y.
3,607,254	768,638(60)	DISPERSION STRENGTHENING OF ALUMINUM ALLOYS BY REACTION OF UNSTABLE OXIDE DISPERSIONS		3,610,923	885,790(60)	CANTED MAGNETIC FIELD FOR CALUTRON ION SOURCE	W. A. Bell,Jr. 10/5/71 A. M. Veach Oak Ridge, Tenn.
3,607,627	766,432(70)	STELLERATOR CONFIGURATION UTILIZING INTERNAL SEPARATICES	H. P. Furth 9/2/71 C. V. Sheffield J. L. Johnson Princeton, N.J.	3,610,926	856,278(60)	COSIMETER FORMED OF A RADIATION SENSITIVE THERMOLUMINESCENT MATERIAL AND METHOD OF READING THE SAME	F. Kastner 10/5/71 Downers Grove, Ill. B. G. Oltman Worth, Ill.
3,607,631	774,227(60)	MODERATED THERMIONIC REACTOR CORE	R. R. Hobson 9/21/71 R. N. Scott P. R. Hill California	3,611,029	856,337(60)	SOURCE FOR HIGHLY STRIPPED IONS	T. H. Stix 10/5/71 Rehovot, Israel
3,607,638	26,575(70)	FUEL ELEMENT VENTING SYSTEM	O. S. Seim 9/21/71 Wheaton, Ill.	3,611,092	11,995(70)	ELECTRONICALLY SWITCHED DYNAMIC BRAKE FOR A D.C. MOTOR	A. R. Wilmunder 10/5/71 Palo, Alto, Calif.
3,607,643	813,450(60)	REACTOR CORE WITH REMOVABLE CORE ELEMENTS	J. A. Paget 9/21/71 Imperial Beach, Calif.	3,611,173	873,221(60)	CHARGE SENSITIVE PREAMPLIFIER USING OPTO-ELECTRONIC FEEDBACK	F. S. Goulding 10/5/71 Lafayette, Calif. W. L. Hansen Walnut Creek, Calif. J. T. Walton Orinda, Calif.
3,607,645	741,960(60)	REACTOR CORE RADIAL LOCKING DEVICE	R. S. Stankiewicz 9/21/71 Ellington, Conn.	3,611,233	849,984(60)	PULSE TRANSFORMER USING STRIPLINE WINDINGS	M. Haldeman, Jr. 10/5/71 Downers Grove, Ill.

3,611,398	24,289(70)	BALANCED DIPOLE ANTENNA	G. H. Schnetzer 10/5/71 Albuquerque, N. Mex.
3,612,804	788,269(60)	INDUCTION HEATING DEVICE FOR SUCCESSIVE BAR-LIKE MEMBERS	N. R. Balzer 10/12/71 Parma, Ohio
3,612,858	10,174(70)	DEVICE FOR MEASURING THE POSITION, SIZE AND INTENSITY OF HIGH ENERGY PARTICLES	T. De Parry 10/12/71 Elmhurst, Ill.
3,612,868	50,270(70)	HIGH SENSITIVITY STIMULATED EXCELECTRON EMISSION RADIATION DOSIMETERS	K. H. Becker 10/12/71 Oak Ridge, Tenn. J. S. Cheka Knoxville, Tenn. R. B. Gammage Oak Ridge, Tenn. E. M. Robinson Knoxville, Tenn.
3,612,869	14,987(70)	LARGE VOLUME PLANAR PAIR Ge(Li) DETECTOR	J. J. Baum 10/12/71 Anaheim, Calif. H. W. Helenberg Calumet City, Ill.
3,12,875	82,380	MOSSBAUER SPECTROMETER	R. N. Ord 10/12/71 Richland, Wash.
3,613,512	866,928(60)	PNEUMATIC CONTROL ROD DRIVE INCLUDING A SCRAM CUSHION	W. E. Taft 10/19/71 Los Gatos, Calif.
3,614,465	773,835(60)	PROGRAMMABLE TIMER	E. W. Kenderdine 10/19/71 Sandia Park, N. Mex.
3,614,606	813,449(60)	CAPACITIVE-COUPLED PROBE FOR MEASURING POTENTIALS IN A PLASMA	J. A. Schmidt 10/19/71 Middleton, Wis. D. W. Kerst Madison, Wis.
3,614,670	874,191(60)	SWITCHABLE MICROWAVE CIRCULATOR WHEREIN GROUND PLANES ARE COMPRISED OF FOILS HAVING ELECTRICALLY CONDUCTIVE PARTICLES	R. G. Wilson 10/19/71 San Jose, Calif.
3,614,694	858,810(60)	COAXIAL CABLE HIGH-VOLTAGE PULSE ISOLATION TRANSFORMER	R. F. Koontz 10/19/71
3,614,724	26,570(70)	DETECTION SYSTEM	W. L. Brown 10/19/71 J. M. Portlock Albuquerque, N. Mex.
3,615,171	46,191(70)	PROCESS OF SEPARATING YTTRIUM FROM LANTHANIDE RARE EARTHS	G. W. Mason 10/26/71 Clarendon Hills, Ill. S. Lewey A. F. Bollmeier Joliet, Ill. D. F. Peppard Oak Park, Ill.
3,615,267	806,293(60)	SEPARATION OF NEPTUNIUM FROM URANIUM HEXAFLUORIDE CONTAINING THE SAME	W. R. Golliher 10/26/71 R. L. Harris R. A. LeDoux Paducah, Ky.
3,615,268	780,101(60)	ISOLATION AND PURIFICATION OF AMERICIUM FROM OTHER 5f AND 4f ELEMENTS BY EXTRACTION CHROMATOGRAPHY	F. L. Moore 10/26/71 Knoxville, Tenn.
3,615,381	775,475(60)	PROCESS FOR PRODUCING DISPERSION-HARDENED SUPERALLOYS BY INTERNAL OXIDATION	J. P. Hammond 10/26/71 Knoxville, Tenn. J. Y. Chang Oak Ridge, Tenn.
3,615,817	796,579(60)	METHOD OF DECONTAMINATING RADIOACTIVE METAL SURFACES	W. T. Jordan 10/26/71 Pittsburgh, Pa. C. A. Zimmerman Idaho Falls, Idaho
3,615,828	17,404(70)	SECONDARY POWER-PRODUCING CELL	A. K. Fischer 10/26/71 Western Springs, Ill.
3,615,920	29,261(70)	HIGH TEMPERATURE BRAZE HEAT TREATMENT FOR PRECIPITATION HARDENING MARTENSITIC STAINLESS STEELS	J. A. Talento 10/26/71 Pittsburgh, Pa.
3,616,280	809,508(60)	NONAQUEOUS ELECTROPLATING SOLUTIONS AND PROCESSING	V. E. Arnold 10/26/71 Albuquerque, N. Mex.
3,616,326	868,440(60)	SEPARATION OF RARE EARTHS BY ELECTROLYSIS WITH POROUS CARBON ELECTRODES	E. I. Onstott 10/26/71 Los Alamos, N. Mex.
3,616,369	687,410(60)	RADIATION-INDUCED IONIC POLYMERIZATION CONTROLLED BY THE PRESENCE OF LEWIS ACIDS OR LEWIS BASES	T. F. Williams 10/26/71 Knoxville, Tenn.

3,616,378	856,464(60)	HIGH-PRESSURE RADIOLYTIC OXIDATION OF CYCLOHEXANE	F. N. Case 10/26/71 Oak Ridge, Tenn. D. E. Smiley Knoxville, Tenn. D. L. Kau Rockwood, Tenn.	
3,617,585	860,281(60)	METHOD FOR PREPARING OXIDE GEL MICROSPHERES FROM SOLS	P. A. Haas 11/2/71 Knoxville, Tenn. S. D. Clinton Oak Ridge, Tenn.	
3,618,770	8,502(70)	COLD TRAP	L. E. Pohl 11/9/71 Los Gatos, Calif. P. Roy Saratoga, Calif.	
3,618,923	852,565(60)	APPARATUS FOR THE DISTILLATION OF POLONIUM FROM BISMUTH	L. R. Michels 11/9/71 San Jose, Calif.	
3,619,178	887,039(60)	PROCESS FOR DIRECTLY REDUCING PLUTONIUM DIOXIDE TO PLUTONIUM	R. E. Felt 11/9/71 Richland, Wash.	
3,619,180	781,802(60)	STRESS-CORROSION-RESISTANT ALLOY	R. W. Staehle 11/9/71 Columbus, Ohio Juan Royuela Madrid, Spain	
3,619,366	822,211(60)	FUEL SUBASSEMBLY FOR A NUCLEAR REACTOR	W. Chubb 11/9/71 Worthington, Ohio D. L. Keller R. A. Wullaert V. W. Storhok Columbus, Ohio	
3,620,078	49,483(70)	SWING SHIELD FOR ROTO-SLIDE SAMPLER	G. S. Raynor 11/16/71 Manorville, N. Y.	
3,620,208	873,223(60)	EKG AMPLIFUING ELECTRODE PICKUP	W. R. Higley 11/16/71 H. L. Silcocks J. A. Waggoner Livermore, Calif.	
3,620,604	1,004(70)	METALLIZING CHAMBER VIEWING SYSTEM	T. H. Benham 11/16/71 Joliet, Ill.	
3,620,687	818,822(60)	ORGANIC PHASE REDUCTION OF PLUTONIUM IN A PUREX TYPE PROCESS	A. S. Wilson 11/16/71 Richland, Washington	
3,620,808	697,281(60)	METHOD OF FORMING A THERMAL EMISSIVITY COATING ON A METALLIC SUBSTRATE	J. E. Monroe,Jr. 11/16/71	
3,620,852	15,237(70)	PROCESS FOR PRODUCING COBALT ALLOYS	J. G. Y. Chow 11/16/71 Northport, N.Y. A. H. Fleitman Smithtown, N.Y. Kokomo, Ind.	
3,620,859	49,188(70)	CHEMICAL POLISHING OF METALLIC SODIUM	H. S. Isaacs 11/16/71 Shoreham, N. Y. R. M. Singer East Islip, N.Y.	
3,620,916	817,955(60)	HED NUCLEAR REACTOR	J. W. Hilborn 11/16/71 Chalk River, Ontario C. G. Lennox Pinawa, Manitoba W. G. Mathers Pinawa, Manitoba	
3,620,917	874,749(60)	METHOD OF OPERATING A RADIOISOTOPE RADIATION SOURCE	R. Flaherty 11/16/71 Pittsburgh, Pa.	
3,621,223	861,381(60)	HIGH FREQUENCY SIGNAL CORRELATOR	I. Alexeff 11/16/71 Oakridge R. V. Neidigh Knoxville, Tenn. W. R. Wing Pella, Iowa	
3,621,238	71,042(70)	GAMMA INSENSITIVE AIR MONITOR FOR RADIOACTIVE GASES	R. A. Jalbert 11/16/71 Los Alamos, N. Mex. R. D. Heibert Los Alamos, N. Mex.	
3,621,254	30,715(70)	DIFFERENTIAL PRESSURE NUCLEAR RADIATION FLUX DETECTOR	C. J. Borkowski 11/16/71 Oak Ridge, Tenn.	
3,621,257	17,403(70)	BETA PARTICLE DETECTION IN THIN NUCLEAR DETECTORS	V. L. Gelezunas 11/16/71 King of Prussia, Pa. P. A. Johston King of Prussia, Pa.	

3,621,261	813,489(60)	RADIOISOTOPE FUEL CAPSULE	F. T. Princiotta 11/16/71 Baltimore, Md. H. N. Barr Baltimore, Md.	
3,621,386	885,576(60)	METHOD OF DETERMINING BONDING IN A COMPOSITE SUPERCONDUCTOR	J. R. Purcell 11/16/71 Downers Grove, Ill.	
3,621,639	880,040(60)	DUST FILTER APPARATUS UTILIZING GRANULAR SOLID FILTER MEDIA	E. F. Edwards 11/23/71 Whittier J. Fukuzawa Monterey Park R. L. Solnick Newport Beach, Calif.	
3,621,892	855,231(60)	RESIN VACUUM DEGASSING AND DISPENSING SYSTEM AND METHOD	T. J. Gillespie 11/23/71 Seminole, Fla.	
3,622,303	552,317(60)	METHOD FOR REMOVING HYDROGEN FROM ALKALI METALS AND THE LIKE	E. F. Hill 11/23/71 Southfield, Mich.	
3,622,312	844,202(60)	METHOD FOR REJUVENATING REFRACTORY ARTICLES	C. F. Holcombe, Jr. 11/23/71 Oak Ridge, Tenn.	
3,622,480	874,030(60)	METHOD OF INCREASING THE CONCENTRATION OF OXYGEN-18 IN AN OXYGEN-CONTAINING COMPOUND	E. R. Johnson 11/23/71 Chevy Chase, Md. E. N. Ladov Maple Shade, N.J. E. W. Holtzscheiter College Park, Md.	
3,622,481	874,031(60)	METHOD OF PRODUCING COMPOUNDS ENRICHED IN OXYGEN-18	E. R. Johnson 11/23/71 Chevy Chase, Md. E. N. Ladov Maple Shade, N.J.	
3,622,830	10,515(70)	OBJECT POSITIONING LINKAGE HAVING A SINGLE-SHAFT PLURAL PISTON ACTUATOR	H. S. Clay 11/23/71 Los Altos Hills, Calif.	
3,623,145	40,653(70)	HIGH ENERGY CHEMICAL LASER SYSTEM	D. W. Gregg 11/23/71 Lafayette R. K. Pearson Pleasanton, Calif.	
3,623,946	467,821(60)	NUCLEAR REACTOR	R. R. Hobson 11/30/71 T. E. Griffin San Jose, Calif.	
3,623,947	467,822(60)	NUCLEAR REACTOR AND THERMIONIC CONVERTER CELLS THEREFOR	R. R. Hobson 11/30/71 T.E. Griffin San Jose, Calif.	
3,624,239	10,516(70)	PULSED LASER-IGNITED THERMO-NUCLEAR REACTOR	A. P. Fraas 11/30/71	
3,624,240	22,294	FEEDBACK STABILIZATION OF A MAGNETICALLY CONFINED PLASMA	C. C. Damm 11/30/71 Alamo, Calif. R. F. Post Walnut Creek, Calif.	
3,624,370	874,192	DIGITAL PLOTTING DEVICE	J. Gray, Jr. 11/30/71 Wheaton, Ill.	
3,624,443	68,579	TWO-PLASMA GUN MAGNETIC FIELD LOADING METHOD	J. E. Hammel 11/30/71 Los Alamos, N. Mex.	
3,624,527	72,387(70)	MAGNETICALLY SELF-SHAPING SEPTUM FOR BEAM DEFLECTION	E. D. Hudson 11/30/71 Knoxville, Tenn.	
3,624,709	886,631(60)	CONTINUOUS-READING PLUGGING-TEMPERATURE METER	J. P. Petrek 11/30/71 Kennewick, Wash.	
3,624,759	11,991(70)	CLOSED FLUID SYSTEM PRESSURIZATION	R. D.Carson 11/30/71 La Grange, Ill.	
3,624,772	874,734(60)	READING AND WRITING MACHINE USING RAISED PATTERNS	A. P. Grunwald 11/30/71 Chicago, Ill.	
3,625,661	849,200(60)	SEPARATION OF TITANIUM FLUORIDE AND NIOBUIM FLUORIDE FROM GASEOUS URANIUM HEXAFLUORIDE	L. W. Anderson 11/30/71 Oak Ridge, Tenn. M. J. Stephenson Oak Ridge, Tenn.	
3,625,675	812,360(70)	NOVEL IRON-CHROMIUM-BERYLLIUM ALLOY SYSTEM	F. C. Robertshaw 11/30/71 R. J. Perkins Cincinnati, Ohio	
3,625,680	772,633(60)	METHOD FOR PRODUCING POROUS URANIUM	J. J. Asbury 11/30/71 Knoxville, Tenn.	

*See page -11- for Pat. No. 3,625,767 and 3,625,818

3,626,183	54,951(70)	RADIOISOTOPE ANALYTICAL INSTRUMENT FOR CEMENT ANALYSIS OF CONCRETE	P. F. Berry J. D. Hall T. Furuta Austin, Tex.	12/7/71
3,626,184	16,802(70)	DETECTOR SYSTEM FOR A SCANNING ELECTRON MICROSCOPE	A. V. Crewe Palos Park, Ill.	12/7/71
3,626,305	794,314(60)	HIGH ENERGY ION ACCELERATOR	H. P. Furth M. N. Rosenbluth Princeton, N.J.	12/7/71
3,626,404	797,765(60)	THREE DIMENSIONAL DISPLAY SYSTEM	D. Ophir East Patchogue, N.Y. B. J. Shepard San Jose, Calif. R. J. Spinrad Santa Monica, Calif.	12/7/71
3,627,041	32,678(70)	GAS RECOVERY SYSTEM	R. A. Heckman Castro Valley, Calif.	12/14/71
3,627,479	766,438(60)	CHEMICAL-ELECTRO-CHEMICAL CYCLE FOR DESALINATION OF WATER	W. C. Yee Oak Ridge, Tenn.	12/14/71
3,627,487	868,494(60)	PROCESS FOR ENRICHING CARBON-13	B. E. Jepson Dayton, Ohio	12/14/71
3,627,654	878,197(60)	ELECTROLYTIC PROCESS FOR CLEANING HIGH-CARBON STEELS	G. S. Petit R. R. Wright Oak Ridge, Tenn.	12/14/71
3,627,691	1,484(70)	METHOD OF PREPARING A CALIFORNIUM-252 NEUTRON SOURCE	A. R. Boulogne J. P. Faraci Aiken, S.C.	12/14/71
3,629,061	824,926(60)	FUEL SUBASSEMBLY FOR NUCLEAR REACTOR	R. C. Noyes Hartford, Conn. M. C. Andrews Newington, Conn.	12/21/71
3,629,062	823,704(60)	TRANSFER MACHINE FOR NUCLEAR REACTOR	H. O. Muenchow Avon, Conn.	12/21/71
3,629,065	844,041(60)	APPARATUS FOR INCREASING POWER DENSITY IN A BOILING LIQUID NUCLEAR REACTOR	W. M. Knox Schenectady, N.Y.	12/21/71
3,629,070	813,689(60)	TEMPERATURE ACTIVATED REACTOR CORE CLAMP	R. S. Stankiewicz Ellington, Conn.	12/21/71
3,629,132	799,118(60)	PROCESS FOR SEPARATING SPECIFIC RADIOELEMENTS, SINGLY OR MULTIPLY, FROM A MIXTURE OF RADIOACTIVE ELEMENTS	C. J. Maletskos Gilucester, Mass. C. W. Tang Cambridge, Mass.	12/21/71
3,629,133	814,311(60)	PRODUCTION OF PREDOMINANTLY CRYSTALLINE SOLS OF URANIA	J. P. McBride Oak Ridge, Tenn. K. H. McCorkle Powell, Tenn. W. L. Pattison Knoxville, Tenn.	12/21/71
3,629,134	814,523(60)	METHOD OF MAINTAINING VARIABLE DENSITY DISSOLVER SOLUTIONS CRITICALLY SAFE	D. W. Rhoes Idaho Falls, Idaho	12/21/71
3,629,135	766,653(60)	METHOD OF DISSOLVING RADIOACTIVE CONTAMINATED ORGANIC ION EXCHANGE RESINS	M. W. Wilding Idaho Falls, Idaho	12/21/71
3,629,138	867,095(60)	METHOD FOR EXCHANGING COUNTERIONS IN ACTINIDE OXIDE SOLS	I. L. Thomas Oak Ridge, Tenn.	12/21/71
3,630,942	799,905 (60)	REMOVAL OF ORGANIC IODINE FROM RADIO-IODINE-CONTAINING ATMOSPHERES	B. A. Soldano W. T. Ward Oak Ridge, Tenn.	12/21/71
3,625,767	885,791(60)	THERMAL BATTERY	R. P. Clark K. R. Grothaus Albuquerque, N. Mex.	12/7/71
3,625,818	730,202(60)	FLEXIBLE CORE REACTOR	R. C. Ross Armonk, N.Y. G. Breidenbach New York, N.Y.	12/7/71

[FR Doc.73-18204 Filed 9-4-73;8:45 am]